

Dakota State Test of Educational Progress (Dakota STEP)

Technical Report: 2004 Spring Administration

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Forward

The 2004 Dakota State Test of Educational Progress (Dakota STEP) Technical Report provides summaries and documentation of the psychometric activities for the total reading and total mathematics in 2004 STEP.

Contributors

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Introduction

The Spring 2004 Dakota State Test of Educational Progress (STEP) is a criterion-referenced test created to measure attainment of the state's curriculum for grades 3, 4, 5, 6, 7, 8, and 11. These tests are designed to measure performance in the areas of Mathematics and Reading.

Test Development and Design

The Dakota STEP was developed in accordance with test specifications and blueprints drafted by the collaboration of Harcourt content specialists and South Dakota (SD) Department of Education (DOE) before 2004. Harcourt content specialists and SD DOE worked closely together to choose available, psychometrically sound, operational test items that are most closely aligned with SD content requirement.

The STEP consists of Stanford 10 (SAT10) multiple-choice (MC) items and South Dakota augmented MC items.

The 2004 STEP utilized the 2003 STEP. The 2004 STEP did not include field test items; therefore, the structure of the test was similar to the 2003 STEP. Both tests had the same number of test forms and the same number of items in each test. The only difference came within the Mathematics grades 4, 6, & 7. For these grades, one Mathematics SD augmented MC item was added. Table 1 indicates grade, subject, the number of SAT10 MC items, and the number of SD augmented MC items. One form is used across all grades and all subjects. The changes in the number of items are highlighted with bold type numbers.

Table 1

Scoring and Data Analysis

Harcourt completed scoring data analysis for STEP tests. To insure that student scores were produced from valid answer keys, key check analysis was conducted. As part of the key check procedure classical test theory (CTT) item statistics were calculated using a preliminary data file. Test items that were flagged using these CTT statistics were examined by content specialists to determine the validity of they key. Based on the key check review, no miss-key of items were found.

Scaling and Equating (Linking)

Mathematics grades 4, 6, & 7 was the only content and grades that went through the scaling and equating process. This was due to the fact that Mathematics grades 4, 6, & 7 was the only content and grades that changed from 2003. The scaling and equating was done to establish new relations between a raw score (RS) to a scale score (SS). The model for scaling was the Rasch model (Rasch, 1980). The Rasch item response model uses the following equation:

$$P(\theta) = \frac{e^{(\theta-\delta)}}{1+e^{(\theta-\delta)}}, \quad (1)$$

This equation illustrates the relation between a person's ability and his/her probability of correct response, where e is an exponent that is 2.718, θ is the person ability, δ is item difficulty, and $P(\theta)$ is the probability of correct response given θ . For equating (linking), the common linking item design with the fixed item parameter anchor method (Embretson & Reise, 2000; Hambleton & Swaminathan, 1985; Hambleton, Swaminathan, & Rogers, 1991) was used to put the calibrated θ scale onto the SAT10 θ scale. The SAT10 item set in the STEP was the common linking item set used as the fixed item anchor.

Scale Scores and Performance Level Cut Scores

After the scaling and equating is complete, the person ability θ is linearly transformed to be on the SS metric. The equation used for the linear transformation for θ to SS was:

$$SS = 35 \times \theta + 600 \quad (2)$$

SD STEP Performance Level (PL) has 4 levels: Below Basic (BB), Basic, Proficient, and Advanced. The 3 cut points for the 4 PL in 2003 were based on the raw score (RS). In 2004, the PL cut scores were expressed in terms of SS.

Summary Statistics

All the statistics in this section are based on the student data that were delivered to SD DOE. The editing rules for data selection are:

- (1) Remove cases (students) who have non-valid raw scores (900 or above in the student data CD delivered to SD DOE)
- (2) Select cases only if “grade” and “level” information match (“level” is defined as “grade” plus two. For example: select cases for grade 3 only if grade = 3 and level = 5; select cases for grade 4 only if grade = 4 and level = 6)

Item Analysis for 2004 STEP

The classical test theory item statistics of p-value and point biserial correlation for all grades and all subjects for 2004 STEP are provided separately in Appendix 1. The p-value is the proportion of students that answer an item correctly. A high p-value means that an item is easy; a low p-value means that an item is hard. The point biserial

correlation is an index of the association between item-score and total-test-score. It shows the ability of the item to discriminate between low ability and high ability students. An item with a high point biserial correlation discriminates the low and the high ability students better than a low point biserial correlation. The value of point biserial correlation between an item score and total score could be somewhat inflated when the item score is included in the calculation of the total score of each examinee. However, as the number of items gets larger, this will hardly be a problem (Crocker & James, 1986). The point biserial correlation reported in this report is a “corrected” point biserial correlation. In the “corrected” point biserial correlation calculation, the score of the item of interest does not contribute to the total score; therefore, it avoids the inflation of the point biserial correlation value when the item of interest is included in the total score (Allen & Yen, 1979).

Raw Score (RS) and Scale Score (SS) Frequency Distribution for 2004 STEP

The RS and SS frequency distributions for all grades and for all subjects are shown in Appendix 2. The RS and SS that has zero number of students are not listed in the frequency distribution.

Performance Level (PL) Frequency Distribution for 2004 STEP

The PL frequency distributions for all grades and for all subjects are shown in Table 2.

Table 2

Comparison of Mean Scale Score (SS) between STEP 2003 and STEP 2004

Table 3 shows the SS change from STEP 2003 to STEP 2004, which is summarized by the mean SS and standard deviation of SS for all grades and for all subjects.

Table 3

Graphical display of the mean SS changes between STEP 2003 and STEP 2004 are shown in Figure 1 (STEP Reading) and Figure 2 (STEP Math).

Figure 1Figure 2*Reliability and Standard Error of Measurement (SEM)*

Table 4 shows reliabilities and Classical Test Theory (CTT) SEMs for STEP 2004. The reliability shown in Table 4 is the Cronbach alpha, and it is equivalent to KR-20 because STEP has MC items only (Lord, 1980). The CTT SEM represents the uncertainty related to the raw score (RS), which is a constant across all RSs. It is the standard deviation of the error score contained in the RS. Under the typical CTT assumptions, $RS \pm 1.96 * SEM$ can be used as a 95% confidence interval for the true score for a specific examinee (Anastasi, & Urbina, 1997).

Table 4

References

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Table 1

SD STEP Number of Items

| Grade | STEP Reading | | | | | |
|-------|--------------|-------|-------|--------|-------|-------|
| | 2003 | | | 2004 | | |
| | SD aug | SAT10 | Total | SD aug | SAT10 | Total |
| 3 | 34 | 29 | 63 | 34 | 29 | 63 |
| 4 | 21 | 21 | 42 | 21 | 21 | 42 |
| 5 | 18 | 24 | 42 | 18 | 24 | 42 |
| 6 | 38 | 26 | 64 | 38 | 26 | 64 |
| 7 | 22 | 33 | 55 | 22 | 33 | 55 |
| 8 | 26 | 23 | 49 | 26 | 23 | 49 |
| 11 | 16 | 26 | 42 | 16 | 26 | 42 |

| Grade | STEP Math | | | | | |
|-------|-----------|-------|------------|-----------|-------|------------|
| | 2003 | | | 2004 | | |
| | SD aug | SAT10 | Total | SD aug | SAT10 | Total |
| 3 | 81 | 24 | 105 | 81 | 24 | 105 |
| 4 | 79 | 25 | 104 | 80 | 25 | 105 |
| 5 | 80 | 25 | 105 | 80 | 25 | 105 |
| 6 | 76 | 28 | 104 | 77 | 28 | 105 |
| 7 | 74 | 30 | 104 | 75 | 30 | 105 |
| 8 | 75 | 30 | 105 | 75 | 30 | 105 |
| 11 | 78 | 27 | 105 | 78 | 27 | 105 |

Table 2
Frequency Distribution of the Performance Levels (PL) for SD STEP 2004

| SD STEP Reading | | | | | | SD STEP Math | | | | | |
|-----------------|------|-------|--------|-------|--|--------------|------|-------|--------|-------|--|
| Grade 3 | | | | | | Grade 3 | | | | | |
| PL | FR | % | Cum FR | Cum % | | PL | FR | % | Cum FR | Cum % | |
| 1 | 0 | 0 | 0 | 0 | | 1 | 3 | 0.03 | 3 | 0.03 | |
| 2 | 2313 | 23.23 | 2313 | 23.23 | | 2 | 2791 | 27.85 | 2794 | 27.88 | |
| 3 | 5391 | 54.15 | 7704 | 77.39 | | 3 | 5392 | 53.81 | 8186 | 81.7 | |
| 4 | 2251 | 22.61 | 9955 | 100 | | 4 | 1834 | 18.3 | 10020 | 100 | |
| Grade 4 | | | | | | Grade 4 | | | | | |
| PL | FR | % | Cum FR | Cum % | | PL | FR | % | Cum FR | Cum % | |
| 1 | 0 | 0 | 0 | 0 | | 1 | 0 | 0 | 0 | 0 | |
| 2 | 1416 | 13.72 | 1416 | 13.72 | | 2 | 2583 | 24.99 | 2583 | 24.99 | |
| 3 | 3918 | 37.97 | 5334 | 51.69 | | 3 | 5308 | 51.35 | 7891 | 76.34 | |
| 4 | 4986 | 48.31 | 10320 | 100 | | 4 | 2445 | 23.66 | 10336 | 100 | |
| Grade 5 | | | | | | Grade 5 | | | | | |
| PL | FR | % | Cum FR | Cum % | | PL | FR | % | Cum FR | Cum % | |
| 1 | 5 | 0.05 | 5 | 0.05 | | 1 | 0 | 0 | 0 | 0 | |
| 2 | 2521 | 23.96 | 2526 | 24.01 | | 2 | 2893 | 27.46 | 2893 | 27.46 | |
| 3 | 4925 | 46.81 | 7451 | 70.82 | | 3 | 4995 | 47.4 | 7888 | 74.86 | |
| 4 | 3070 | 29.18 | 10521 | 100 | | 4 | 2649 | 25.14 | 10537 | 100 | |
| Grade 6 | | | | | | Grade 6 | | | | | |
| PL | FR | % | Cum FR | Cum % | | PL | FR | % | Cum FR | Cum % | |
| 1 | 11 | 0.1 | 11 | 0.1 | | 1 | 4 | 0.04 | 4 | 0.04 | |
| 2 | 2663 | 24.3 | 2674 | 24.4 | | 2 | 4254 | 38.78 | 4258 | 38.81 | |
| 3 | 5243 | 47.85 | 7917 | 72.26 | | 3 | 4813 | 43.87 | 9071 | 82.69 | |
| 4 | 3040 | 27.74 | 10957 | 100 | | 4 | 1899 | 17.31 | 10970 | 100 | |
| Grade 7 | | | | | | Grade 7 | | | | | |
| PL | FR | % | Cum FR | Cum % | | PL | FR | % | Cum FR | Cum % | |
| 1 | 29 | 0.27 | 29 | 0.27 | | 1 | 2 | 0.02 | 2 | 0.02 | |
| 2 | 3129 | 29.1 | 3158 | 29.37 | | 2 | 4025 | 37.36 | 4027 | 37.38 | |
| 3 | 5636 | 52.42 | 8794 | 81.8 | | 3 | 5362 | 49.77 | 9389 | 87.14 | |
| 4 | 1957 | 18.2 | 10751 | 100 | | 4 | 1385 | 12.86 | 10774 | 100 | |
| Grade 8 | | | | | | Grade 8 | | | | | |
| PL | FR | % | Cum FR | Cum % | | PL | FR | % | Cum FR | Cum % | |
| 1 | 0 | 0 | 0 | 0 | | 1 | 2 | 0.02 | 2 | 0.02 | |
| 2 | 2535 | 22.86 | 2535 | 22.86 | | 2 | 3963 | 35.67 | 3965 | 35.69 | |
| 3 | 6165 | 55.6 | 8700 | 78.46 | | 3 | 5082 | 45.75 | 9047 | 81.44 | |
| 4 | 2388 | 21.54 | 11088 | 100 | | 4 | 2062 | 18.56 | 11109 | 100 | |
| Grade 11 | | | | | | Grade 11 | | | | | |
| PL | FR | % | Cum FR | Cum % | | PL | FR | % | Cum FR | Cum % | |
| 1 | 3 | 0.03 | 3 | 0.03 | | 1 | 1 | 0.01 | 1 | 0.01 | |
| 2 | 2816 | 28.62 | 2819 | 28.65 | | 2 | 2887 | 29.32 | 2888 | 29.33 | |
| 3 | 4993 | 50.75 | 7812 | 79.41 | | 3 | 4979 | 50.57 | 7867 | 79.91 | |
| 4 | 2026 | 20.59 | 9838 | 100 | | 4 | 1978 | 20.09 | 9845 | 100 | |

Table 3
Scale Score (SS) summary for STEP 2003 and STEP 2004

| Grade | 2003 | | | | | |
|-------|-------|------|-------|---------|------|-------|
| | Math | | | Reading | | |
| | Mean | SD | N | Mean | SD | N |
| 3 | 603.3 | 36.6 | 10220 | 629.1 | 40.1 | 10205 |
| 4 | 635.2 | 34.7 | 10509 | 642.9 | 41.8 | 10492 |
| 5 | 653.1 | 32.9 | 10788 | 655.3 | 36.6 | 10774 |
| 6 | 669 | 36.5 | 10653 | 666.4 | 37.5 | 10640 |
| 7 | 686.4 | 37 | 11062 | 678.9 | 36.2 | 11034 |
| 8 | 699 | 36.5 | 10972 | 691.9 | 37.1 | 10941 |
| 11 | 725.1 | 39 | 10217 | 735.5 | 37.4 | 10201 |

| Grade | 2004 | | | | | |
|-------|-------|------|-------|---------|------|-------|
| | Math | | | Reading | | |
| | Mean | SD | N | Mean | SD | N |
| 3 | 611.8 | 36.5 | 10020 | 634.1 | 38.5 | 9955 |
| 4 | 639.8 | 35.6 | 10336 | 645.4 | 41.9 | 10320 |
| 5 | 658 | 34.2 | 10537 | 656.6 | 36.2 | 10521 |
| 6 | 671.8 | 37.6 | 10970 | 666.8 | 38.3 | 10957 |
| 7 | 689.9 | 38.1 | 10774 | 678.5 | 35.6 | 10751 |
| 8 | 701.9 | 36.8 | 11109 | 692 | 36.4 | 11088 |
| 11 | 727.1 | 38.9 | 9845 | 737.3 | 37.5 | 9838 |

Table 4

Reliability and Classical Test Theory (CTT) Standard Error of Measurement (SEM)

| STEP Reading 2004 | | | | |
|-------------------|--------------|---------|-------------|-------|
| Grade | No. of Items | N count | Reliability | SEM |
| 3 | 63 | 9955 | 0.92 | 10.83 |
| 4 | 42 | 10320 | 0.89 | 13.86 |
| 5 | 42 | 10521 | 0.87 | 13.00 |
| 6 | 64 | 10957 | 0.92 | 10.57 |
| 7 | 55 | 10751 | 0.90 | 11.29 |
| 8 | 49 | 11088 | 0.89 | 12.06 |
| 11 | 42 | 9838 | 0.86 | 14.01 |

| STEP Math 2004 | | | | |
|----------------|--------------|---------|-------------|------|
| Grade | No. of Items | N count | Reliability | SEM |
| 3 | 105 | 10020 | 0.95 | 8.17 |
| 4 | 105 | 10336 | 0.95 | 8.14 |
| 5 | 105 | 10537 | 0.95 | 7.93 |
| 6 | 105 | 10970 | 0.95 | 8.19 |
| 7 | 105 | 10774 | 0.96 | 8.02 |
| 8 | 105 | 11109 | 0.95 | 8.01 |
| 11 | 105 | 9845 | 0.96 | 8.22 |

Figure 1

Mean Scale Score Comparison for STEP Reading in 2003 and 2004

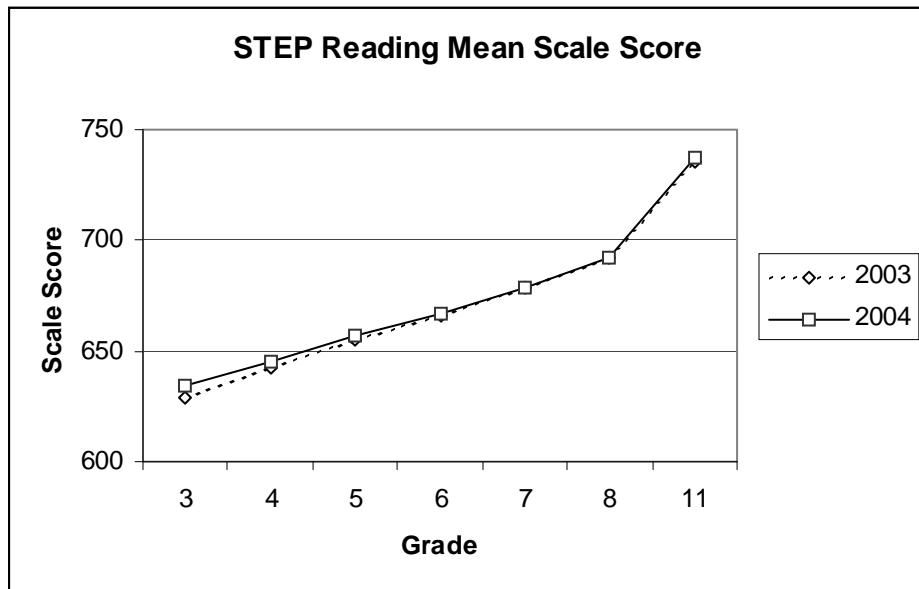
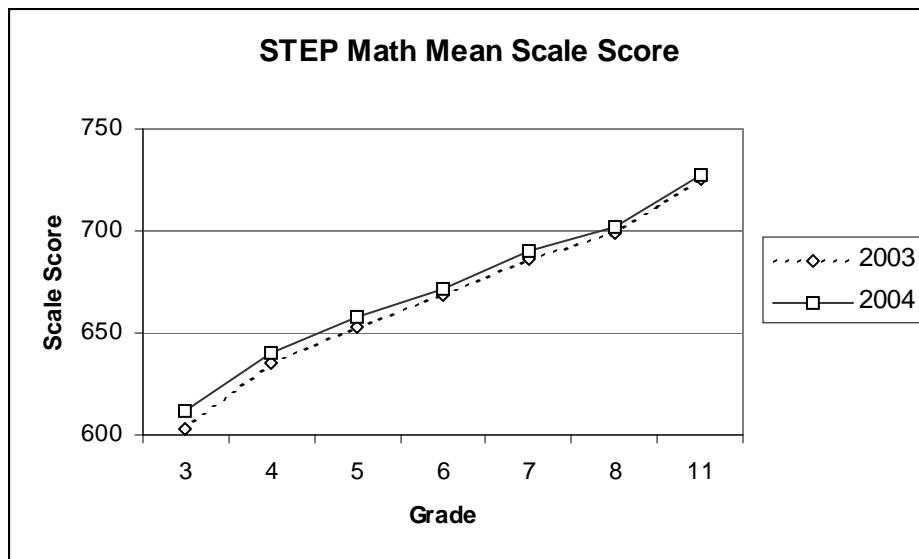


Figure 2

Mean Scale Score Comparison for STEP Math in 2003 and 2004



Appendix 1

Item analysis: p-value and point biserial correlations for STEP

* Item No = Item Number

* point bis = point biserial correlation

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 3 | | | Grade 3 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i1 | 0.94 | 0.146 | i1 | 0.56 | 0.412 |
| i2 | 0.95 | 0.257 | i2 | 0.86 | 0.337 |
| i3 | 0.86 | 0.313 | i3 | 0.56 | 0.331 |
| i4 | 0.87 | 0.397 | i4 | 0.87 | 0.409 |
| i5 | 0.64 | 0.427 | i5 | 0.78 | 0.429 |
| i6 | 0.46 | 0.363 | i6 | 0.66 | 0.372 |
| i7 | 0.6 | 0.331 | i7 | 0.77 | 0.387 |
| i8 | 0.61 | 0.246 | i8 | 0.8 | 0.504 |
| i9 | 0.75 | 0.456 | i9 | 0.73 | 0.368 |
| i10 | 0.7 | 0.356 | i10 | 0.82 | 0.271 |
| i11 | 0.59 | 0.385 | i11 | 0.49 | 0.41 |
| i12 | 0.92 | 0.333 | i12 | 0.86 | 0.44 |
| i13 | 0.93 | 0.388 | i13 | 0.7 | 0.473 |
| i14 | 0.71 | 0.503 | i14 | 0.77 | 0.517 |
| i15 | 0.87 | 0.329 | i15 | 0.8 | 0.499 |
| i16 | 0.63 | 0.343 | i16 | 0.77 | 0.453 |
| i17 | 0.77 | 0.49 | i17 | 0.72 | 0.471 |
| i18 | 0.4 | 0.376 | i18 | 0.69 | 0.366 |
| i19 | 0.79 | 0.519 | i19 | 0.75 | 0.33 |
| i20 | 0.7 | 0.497 | i20 | 0.82 | 0.213 |
| i21 | 0.43 | 0.263 | i21 | 0.73 | 0.409 |
| i22 | 0.82 | 0.241 | i22 | 0.7 | 0.201 |
| i23 | 0.91 | 0.444 | i23 | 0.91 | 0.342 |
| i24 | 0.85 | 0.526 | i24 | 0.82 | 0.409 |
| i25 | 0.57 | 0.437 | i25 | 0.9 | 0.354 |
| i26 | 0.74 | 0.48 | i26 | 0.64 | 0.415 |
| i27 | 0.62 | 0.278 | i27 | 0.83 | 0.334 |
| i28 | 0.75 | 0.463 | i28 | 0.6 | 0.434 |
| i29 | 0.41 | 0.32 | i29 | 0.74 | 0.444 |
| i30 | 0.71 | 0.437 | i30 | 0.43 | 0.217 |
| i31 | 0.75 | 0.519 | i31 | 0.68 | 0.32 |
| i32 | 0.87 | 0.5 | i32 | 0.58 | 0.462 |
| i33 | 0.82 | 0.493 | i33 | 0.69 | 0.521 |
| i34 | 0.72 | 0.371 | i34 | 0.57 | 0.47 |
| i35 | 0.55 | 0.327 | i35 | 0.56 | 0.326 |
| i36 | 0.66 | 0.326 | i36 | 0.53 | 0.449 |
| i37 | 0.83 | 0.362 | i37 | 0.73 | 0.556 |
| i38 | 0.62 | 0.418 | i38 | 0.46 | 0.485 |
| i39 | 0.55 | 0.291 | i39 | 0.64 | 0.481 |
| i40 | 0.38 | 0.226 | i40 | 0.68 | 0.438 |
| i41 | 0.75 | 0.43 | i41 | 0.89 | 0.344 |
| i42 | 0.41 | 0.172 | i42 | 0.73 | 0.375 |
| i43 | 0.53 | 0.39 | i43 | 0.48 | 0.409 |
| i44 | 0.6 | 0.217 | i44 | 0.59 | 0.472 |
| i45 | 0.88 | 0.519 | i45 | 0.64 | 0.537 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 3 | | | Grade 3 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i46 | 0.57 | 0.388 | i46 | 0.37 | 0.419 |
| i47 | 0.49 | 0.318 | i47 | 0.25 | 0.109 |
| i48 | 0.48 | 0.307 | i48 | 0.64 | 0.576 |
| i49 | 0.78 | 0.547 | i49 | 0.69 | 0.518 |
| i50 | 0.77 | 0.406 | i50 | 0.71 | 0.546 |
| i51 | 0.51 | 0.295 | i51 | 0.81 | 0.501 |
| i52 | 0.73 | 0.491 | i52 | 0.82 | 0.488 |
| i53 | 0.63 | 0.39 | i53 | 0.86 | 0.451 |
| i54 | 0.87 | 0.413 | i54 | 0.64 | 0.551 |
| i55 | 0.7 | 0.435 | i55 | 0.73 | 0.429 |
| i56 | 0.5 | 0.446 | i56 | 0.68 | 0.483 |
| i57 | 0.7 | 0.488 | i57 | 0.72 | 0.517 |
| i58 | 0.78 | 0.52 | i58 | 0.69 | 0.403 |
| i59 | 0.27 | 0.076 | i59 | 0.66 | 0.517 |
| i60 | 0.73 | 0.494 | i60 | 0.57 | 0.444 |
| i61 | 0.66 | 0.543 | i61 | 0.56 | 0.279 |
| i62 | 0.58 | 0.423 | i62 | 0.63 | 0.299 |
| i63 | 0.69 | 0.437 | i63 | 0.48 | 0.341 |
| | | | i64 | 0.43 | 0.424 |
| | | | i65 | 0.62 | 0.376 |
| | | | i66 | 0.8 | 0.402 |
| | | | i67 | 0.31 | 0.175 |
| | | | i68 | 0.71 | 0.458 |
| | | | i69 | 0.75 | 0.334 |
| | | | i70 | 0.64 | 0.43 |
| | | | i71 | 0.44 | 0.361 |
| | | | i72 | 0.42 | 0.17 |
| | | | i73 | 0.79 | 0.348 |
| | | | i74 | 0.54 | 0.435 |
| | | | i75 | 0.63 | 0.484 |
| | | | i76 | 0.64 | 0.348 |
| | | | i77 | 0.48 | 0.413 |
| | | | i78 | 0.96 | 0.254 |
| | | | i79 | 0.67 | 0.374 |
| | | | i80 | 0.71 | 0.455 |
| | | | i81 | 0.93 | 0.255 |
| | | | i82 | 0.82 | 0.46 |
| | | | i83 | 0.62 | 0.393 |
| | | | i84 | 0.73 | 0.429 |
| | | | i85 | 0.92 | 0.332 |
| | | | i86 | 0.63 | 0.3 |
| | | | i87 | 0.47 | 0.232 |
| | | | i88 | 0.77 | 0.225 |
| | | | i89 | 0.85 | 0.379 |
| | | | i90 | 0.87 | 0.345 |
| | | | i91 | 0.34 | 0.101 |
| | | | i92 | 0.76 | 0.328 |
| | | | i93 | 0.74 | 0.211 |
| | | | i94 | 0.93 | 0.347 |
| | | | i95 | 0.4 | 0.289 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 3 | | | Grade 3 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| | | | i96 | 0.67 | 0.308 |
| | | | i97 | 0.77 | 0.264 |
| | | | i98 | 0.72 | 0.383 |
| | | | i99 | 0.43 | 0.286 |
| | | | i100 | 0.52 | 0.359 |
| | | | i101 | 0.6 | 0.519 |
| | | | i102 | 0.54 | 0.197 |
| | | | i103 | 0.84 | 0.471 |
| | | | i104 | 0.64 | 0.31 |
| | | | i105 | 0.24 | 0.253 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 4 | | | Grade 4 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i1 | 0.93 | 0.319 | i1 | 0.67 | 0.332 |
| i2 | 0.95 | 0.284 | i2 | 0.18 | 0.237 |
| i3 | 0.92 | 0.268 | i3 | 0.9 | 0.372 |
| i4 | 0.78 | 0.415 | i4 | 0.51 | 0.457 |
| i5 | 0.89 | 0.28 | i5 | 0.84 | 0.386 |
| i6 | 0.66 | 0.196 | i6 | 0.79 | 0.444 |
| i7 | 0.62 | 0.376 | i7 | 0.97 | 0.225 |
| i8 | 0.83 | 0.342 | i8 | 0.75 | 0.513 |
| i9 | 0.79 | 0.443 | i9 | 0.22 | 0.195 |
| i10 | 0.82 | 0.519 | i10 | 0.57 | 0.363 |
| i11 | 0.8 | 0.458 | i11 | 0.57 | 0.459 |
| i12 | 0.39 | 0.229 | i12 | 0.83 | 0.181 |
| i13 | 0.6 | 0.429 | i13 | 0.78 | 0.462 |
| i14 | 0.58 | 0.41 | i14 | 0.65 | 0.377 |
| i15 | 0.46 | 0.318 | i15 | 0.85 | 0.457 |
| i16 | 0.59 | 0.474 | i16 | 0.59 | 0.406 |
| i17 | 0.67 | 0.394 | i17 | 0.48 | 0.409 |
| i18 | 0.93 | 0.387 | i18 | 0.72 | 0.435 |
| i19 | 0.8 | 0.357 | i19 | 0.78 | 0.342 |
| i20 | 0.74 | 0.293 | i20 | 0.74 | 0.429 |
| i21 | 0.53 | 0.329 | i21 | 0.4 | 0.171 |
| i22 | 0.65 | 0.494 | i22 | 0.53 | 0.463 |
| i23 | 0.94 | 0.29 | i23 | 0.32 | 0.358 |
| i24 | 0.6 | 0.323 | i24 | 0.75 | 0.437 |
| i25 | 0.91 | 0.435 | i25 | 0.89 | 0.305 |
| i26 | 0.56 | 0.398 | i26 | 0.3 | 0.378 |
| i27 | 0.58 | 0.422 | i27 | 0.51 | 0.579 |
| i28 | 0.46 | 0.341 | i28 | 0.57 | 0.382 |
| i29 | 0.62 | 0.444 | i29 | 0.86 | 0.338 |
| i30 | 0.78 | 0.517 | i30 | 0.51 | 0.344 |
| i31 | 0.47 | 0.418 | i31 | 0.6 | 0.464 |
| i32 | 0.71 | 0.459 | i32 | 0.55 | 0.367 |
| i33 | 0.6 | 0.358 | i33 | 0.59 | 0.389 |
| i34 | 0.8 | 0.469 | i34 | 0.41 | 0.296 |
| i35 | 0.79 | 0.539 | i35 | 0.42 | 0.376 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 4 | | | Grade 4 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i36 | 0.54 | 0.274 | i36 | 0.88 | 0.32 |
| i37 | 0.75 | 0.451 | i37 | 0.75 | 0.452 |
| i38 | 0.68 | 0.473 | i38 | 0.83 | 0.364 |
| i39 | 0.81 | 0.492 | i39 | 0.79 | 0.48 |
| i40 | 0.79 | 0.496 | i40 | 0.62 | 0.484 |
| i41 | 0.76 | 0.454 | i41 | 0.69 | 0.45 |
| i42 | 0.36 | 0.143 | i42 | 0.76 | 0.426 |
| | | | i43 | 0.46 | 0.558 |
| | | | i44 | 0.59 | 0.504 |
| | | | i45 | 0.86 | 0.468 |
| | | | i46 | 0.47 | 0.256 |
| | | | i47 | 0.64 | 0.466 |
| | | | i48 | 0.65 | 0.45 |
| | | | i49 | 0.58 | 0.218 |
| | | | i50 | 0.65 | 0.481 |
| | | | i51 | 0.62 | 0.498 |
| | | | i52 | 0.57 | 0.435 |
| | | | i53 | 0.6 | 0.528 |
| | | | i54 | 0.86 | 0.348 |
| | | | i55 | 0.92 | 0.266 |
| | | | i56 | 0.51 | 0.447 |
| | | | i57 | 0.47 | 0.251 |
| | | | i58 | 0.21 | 0.063 |
| | | | i59 | 0.32 | 0.257 |
| | | | i60 | 0.35 | 0.293 |
| | | | i61 | 0.57 | 0.382 |
| | | | i62 | 0.72 | 0.441 |
| | | | i63 | 0.69 | 0.448 |
| | | | i64 | 0.47 | 0.323 |
| | | | i65 | 0.51 | 0.325 |
| | | | i66 | 0.69 | 0.525 |
| | | | i67 | 0.59 | 0.467 |
| | | | i68 | 0.4 | 0.336 |
| | | | i69 | 0.69 | 0.465 |
| | | | i70 | 0.56 | 0.506 |
| | | | i71 | 0.78 | 0.488 |
| | | | i72 | 0.81 | 0.375 |
| | | | i73 | 0.74 | 0.422 |
| | | | i74 | 0.72 | 0.381 |
| | | | i75 | 0.34 | 0.263 |
| | | | i76 | 0.32 | 0.423 |
| | | | i77 | 0.7 | 0.452 |
| | | | i78 | 0.75 | 0.489 |
| | | | i79 | 0.81 | 0.412 |
| | | | i80 | 0.76 | 0.384 |
| | | | i81 | 0.8 | 0.429 |
| | | | i82 | 0.6 | 0.395 |
| | | | i83 | 0.57 | 0.364 |
| | | | i84 | 0.49 | 0.392 |
| | | | i85 | 0.27 | 0.098 |

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| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 4 | | | Grade 4 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| | | | i86 | 0.68 | 0.353 |
| | | | i87 | 0.74 | 0.395 |
| | | | i88 | 0.79 | 0.282 |
| | | | i89 | 0.79 | 0.331 |
| | | | i90 | 0.32 | 0.143 |
| | | | i91 | 0.41 | 0.317 |
| | | | i92 | 0.58 | 0.412 |
| | | | i93 | 0.69 | 0.29 |
| | | | i94 | 0.84 | 0.413 |
| | | | i95 | 0.54 | 0.249 |
| | | | i96 | 0.56 | 0.296 |
| | | | i97 | 0.78 | 0.325 |
| | | | i98 | 0.59 | 0.471 |
| | | | i99 | 0.42 | 0.338 |
| | | | i100 | 0.65 | 0.372 |
| | | | i101 | 0.49 | 0.293 |
| | | | i102 | 0.6 | 0.334 |
| | | | i103 | 0.66 | 0.31 |
| | | | i104 | 0.36 | 0.373 |
| | | | i105 | 0.57 | 0.193 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 5 | | | Grade 5 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i1 | 0.87 | 0.31 | i1 | 0.65 | 0.337 |
| i2 | 0.78 | 0.428 | i2 | 0.24 | 0.127 |
| i3 | 0.77 | 0.27 | i3 | 0.72 | 0.336 |
| i4 | 0.7 | 0.326 | i4 | 0.7 | 0.427 |
| i5 | 0.81 | 0.215 | i5 | 0.52 | 0.524 |
| i6 | 0.91 | 0.4 | i6 | 0.78 | 0.378 |
| i7 | 0.6 | 0.328 | i7 | 0.89 | 0.3 |
| i8 | 0.77 | 0.406 | i8 | 0.63 | 0.489 |
| i9 | 0.83 | 0.441 | i9 | 0.61 | 0.412 |
| i10 | 0.73 | 0.452 | i10 | 0.5 | 0.397 |
| i11 | 0.61 | 0.434 | i11 | 0.6 | 0.456 |
| i12 | 0.72 | 0.275 | i12 | 0.57 | 0.39 |
| i13 | 0.59 | 0.199 | i13 | 0.84 | 0.44 |
| i14 | 0.69 | 0.135 | i14 | 0.69 | 0.469 |
| i15 | 0.87 | 0.373 | i15 | 0.76 | 0.418 |
| i16 | 0.77 | 0.431 | i16 | 0.95 | 0.256 |
| i17 | 0.65 | 0.401 | i17 | 0.65 | 0.526 |
| i18 | 0.76 | 0.506 | i18 | 0.79 | 0.388 |
| i19 | 0.87 | 0.456 | i19 | 0.67 | 0.403 |
| i20 | 0.84 | 0.523 | i20 | 0.61 | 0.283 |
| i21 | 0.58 | 0.139 | i21 | 0.74 | 0.333 |
| i22 | 0.41 | 0.248 | i22 | 0.62 | 0.266 |
| i23 | 0.36 | 0.246 | i23 | 0.63 | 0.475 |
| i24 | 0.7 | 0.388 | i24 | 0.39 | 0.34 |
| i25 | 0.84 | 0.144 | i25 | 0.76 | 0.456 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 5 | | | Grade 5 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i26 | 0.48 | 0.383 | i26 | 0.66 | 0.354 |
| i27 | 0.7 | 0.331 | i27 | 0.6 | 0.208 |
| i28 | 0.39 | 0.312 | i28 | 0.59 | 0.437 |
| i29 | 0.28 | 0.017 | i29 | 0.56 | 0.383 |
| i30 | 0.89 | 0.293 | i30 | 0.48 | 0.201 |
| i31 | 0.59 | 0.443 | i31 | 0.8 | 0.318 |
| i32 | 0.67 | 0.408 | i32 | 0.28 | 0.26 |
| i33 | 0.68 | 0.509 | i33 | 0.33 | 0.375 |
| i34 | 0.49 | 0.37 | i34 | 0.84 | 0.367 |
| i35 | 0.4 | 0.308 | i35 | 0.56 | 0.273 |
| i36 | 0.65 | 0.458 | i36 | 0.45 | 0.35 |
| i37 | 0.74 | 0.396 | i37 | 0.73 | 0.428 |
| i38 | 0.77 | 0.442 | i38 | 0.76 | 0.483 |
| i39 | 0.64 | 0.469 | i39 | 0.74 | 0.325 |
| i40 | 0.84 | 0.467 | i40 | 0.67 | 0.536 |
| i41 | 0.7 | 0.462 | i41 | 0.18 | 0.008 |
| i42 | 0.52 | 0.268 | i42 | 0.63 | 0.444 |
| | | | i43 | 0.41 | 0.206 |
| | | | i44 | 0.42 | 0.28 |
| | | | i45 | 0.84 | 0.515 |
| | | | i46 | 0.56 | 0.5 |
| | | | i47 | 0.72 | 0.413 |
| | | | i48 | 0.81 | 0.464 |
| | | | i49 | 0.76 | 0.424 |
| | | | i50 | 0.65 | 0.47 |
| | | | i51 | 0.67 | 0.466 |
| | | | i52 | 0.52 | 0.35 |
| | | | i53 | 0.66 | 0.522 |
| | | | i54 | 0.71 | 0.511 |
| | | | i55 | 0.65 | 0.504 |
| | | | i56 | 0.52 | 0.419 |
| | | | i57 | 0.46 | 0.388 |
| | | | i58 | 0.17 | 0.07 |
| | | | i59 | 0.73 | 0.509 |
| | | | i60 | 0.57 | 0.515 |
| | | | i61 | 0.51 | 0.44 |
| | | | i62 | 0.77 | 0.525 |
| | | | i63 | 0.35 | 0.114 |
| | | | i64 | 0.78 | 0.407 |
| | | | i65 | 0.52 | 0.448 |
| | | | i66 | 0.59 | 0.458 |
| | | | i67 | 0.34 | 0.152 |
| | | | i68 | 0.56 | 0.442 |
| | | | i69 | 0.78 | 0.438 |
| | | | i70 | 0.48 | 0.378 |
| | | | i71 | 0.44 | 0.418 |
| | | | i72 | 0.63 | 0.441 |
| | | | i73 | 0.78 | 0.449 |
| | | | i74 | 0.76 | 0.403 |
| | | | i75 | 0.62 | 0.399 |

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| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 5 | | | Grade 5 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| | | | i76 | 0.43 | 0.21 |
| | | | i77 | 0.56 | 0.419 |
| | | | i78 | 0.47 | 0.168 |
| | | | i79 | 0.49 | 0.336 |
| | | | i80 | 0.37 | 0.235 |
| | | | i81 | 0.54 | 0.409 |
| | | | i82 | 0.73 | 0.426 |
| | | | i83 | 0.71 | 0.464 |
| | | | i84 | 0.87 | 0.41 |
| | | | i85 | 0.39 | 0.389 |
| | | | i86 | 0.7 | 0.386 |
| | | | i87 | 0.64 | 0.226 |
| | | | i88 | 0.38 | 0.349 |
| | | | i89 | 0.48 | 0.35 |
| | | | i90 | 0.25 | 0.266 |
| | | | i91 | 0.7 | 0.243 |
| | | | i92 | 0.42 | 0.137 |
| | | | i93 | 0.66 | 0.263 |
| | | | i94 | 0.7 | 0.085 |
| | | | i95 | 0.69 | 0.324 |
| | | | i96 | 0.63 | 0.45 |
| | | | i97 | 0.75 | 0.404 |
| | | | i98 | 0.52 | 0.289 |
| | | | i99 | 0.75 | 0.354 |
| | | | i100 | 0.53 | 0.386 |
| | | | i101 | 0.41 | 0.318 |
| | | | i102 | 0.65 | 0.54 |
| | | | i103 | 0.5 | 0.376 |
| | | | i104 | 0.52 | 0.405 |
| | | | i105 | 0.84 | 0.438 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 6 | | | Grade 6 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i1 | 0.91 | 0.376 | i1 | 0.65 | 0.527 |
| i2 | 0.76 | 0.386 | i2 | 0.71 | 0.283 |
| i3 | 0.74 | 0.316 | i3 | 0.67 | 0.371 |
| i4 | 0.87 | 0.439 | i4 | 0.71 | 0.432 |
| i5 | 0.79 | 0.503 | i5 | 0.7 | 0.557 |
| i6 | 0.61 | 0.333 | i6 | 0.73 | 0.366 |
| i7 | 0.89 | 0.409 | i7 | 0.27 | 0.32 |
| i8 | 0.72 | 0.401 | i8 | 0.78 | 0.372 |
| i9 | 0.71 | 0.453 | i9 | 0.8 | 0.44 |
| i10 | 0.62 | 0.292 | i10 | 0.58 | 0.457 |
| i11 | 0.78 | 0.508 | i11 | 0.42 | 0.3 |
| i12 | 0.72 | 0.424 | i12 | 0.65 | 0.43 |
| i13 | 0.56 | 0.296 | i13 | 0.75 | 0.236 |
| i14 | 0.6 | 0.502 | i14 | 0.53 | 0.504 |
| i15 | 0.77 | 0.528 | i15 | 0.51 | 0.372 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 6 | | | Grade 6 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i16 | 0.65 | 0.446 | i16 | 0.72 | 0.471 |
| i17 | 0.63 | 0.379 | i17 | 0.63 | 0.417 |
| i18 | 0.8 | 0.566 | i18 | 0.73 | 0.484 |
| i19 | 0.83 | 0.483 | i19 | 0.72 | 0.371 |
| i20 | 0.76 | 0.375 | i20 | 0.51 | 0.291 |
| i21 | 0.87 | 0.433 | i21 | 0.71 | 0.438 |
| i22 | 0.35 | 0.233 | i22 | 0.87 | 0.329 |
| i23 | 0.8 | 0.363 | i23 | 0.82 | 0.396 |
| i24 | 0.62 | 0.395 | i24 | 0.66 | 0.382 |
| i25 | 0.67 | 0.366 | i25 | 0.58 | 0.248 |
| i26 | 0.72 | 0.576 | i26 | 0.31 | 0.127 |
| i27 | 0.42 | 0.337 | i27 | 0.5 | 0.436 |
| i28 | 0.8 | 0.409 | i28 | 0.65 | 0.349 |
| i29 | 0.52 | 0.387 | i29 | 0.88 | 0.362 |
| i30 | 0.73 | 0.349 | i30 | 0.47 | 0.319 |
| i31 | 0.48 | 0.303 | i31 | 0.85 | 0.311 |
| i32 | 0.5 | 0.165 | i32 | 0.45 | 0.43 |
| i33 | 0.65 | 0.493 | i33 | 0.41 | 0.446 |
| i34 | 0.35 | 0.127 | i34 | 0.67 | 0.544 |
| i35 | 0.43 | 0.039 | i35 | 0.64 | 0.388 |
| i36 | 0.77 | 0.447 | i36 | 0.45 | 0.454 |
| i37 | 0.79 | 0.508 | i37 | 0.49 | 0.428 |
| i38 | 0.66 | 0.399 | i38 | 0.67 | 0.456 |
| i39 | 0.72 | 0.552 | i39 | 0.29 | 0.237 |
| i40 | 0.36 | 0.253 | i40 | 0.64 | 0.374 |
| i41 | 0.65 | 0.405 | i41 | 0.34 | 0.28 |
| i42 | 0.56 | 0.335 | i42 | 0.62 | 0.418 |
| i43 | 0.41 | 0.318 | i43 | 0.56 | 0.352 |
| i44 | 0.58 | 0.411 | i44 | 0.69 | 0.476 |
| i45 | 0.46 | 0.309 | i45 | 0.54 | 0.405 |
| i46 | 0.4 | 0.132 | i46 | 0.49 | 0.399 |
| i47 | 0.79 | 0.548 | i47 | 0.54 | 0.463 |
| i48 | 0.85 | 0.502 | i48 | 0.79 | 0.484 |
| i49 | 0.29 | 0.247 | i49 | 0.43 | 0.479 |
| i50 | 0.57 | 0.294 | i50 | 0.75 | 0.518 |
| i51 | 0.68 | 0.468 | i51 | 0.77 | 0.509 |
| i52 | 0.79 | 0.496 | i52 | 0.8 | 0.378 |
| i53 | 0.86 | 0.328 | i53 | 0.74 | 0.425 |
| i54 | 0.69 | 0.388 | i54 | 0.7 | 0.463 |
| i55 | 0.62 | 0.493 | i55 | 0.83 | 0.443 |
| i56 | 0.68 | 0.417 | i56 | 0.94 | 0.338 |
| i57 | 0.81 | 0.506 | i57 | 0.76 | 0.5 |
| i58 | 0.71 | 0.383 | i58 | 0.75 | 0.38 |
| i59 | 0.67 | 0.534 | i59 | 0.78 | 0.366 |
| i60 | 0.74 | 0.523 | i60 | 0.6 | 0.495 |
| i61 | 0.92 | 0.359 | i61 | 0.76 | 0.452 |
| i62 | 0.81 | 0.355 | i62 | 0.65 | 0.377 |
| i63 | 0.48 | 0.305 | i63 | 0.74 | 0.481 |
| i64 | 0.81 | 0.443 | i64 | 0.28 | 0.228 |
| | | | i65 | 0.76 | 0.391 |

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| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 6 | | | Grade 6 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| | | | i66 | 0.64 | 0.403 |
| | | | i67 | 0.65 | 0.307 |
| | | | i68 | 0.64 | 0.412 |
| | | | i69 | 0.45 | 0.443 |
| | | | i70 | 0.56 | 0.507 |
| | | | i71 | 0.65 | 0.394 |
| | | | i72 | 0.8 | 0.524 |
| | | | i73 | 0.76 | 0.489 |
| | | | i74 | 0.83 | 0.474 |
| | | | i75 | 0.45 | 0.384 |
| | | | i76 | 0.28 | 0.226 |
| | | | i77 | 0.59 | -0.056 |
| | | | i78 | 0.26 | 0.348 |
| | | | i79 | 0.82 | 0.39 |
| | | | i80 | 0.65 | 0.479 |
| | | | i81 | 0.56 | 0.494 |
| | | | i82 | 0.47 | 0.408 |
| | | | i83 | 0.55 | 0.475 |
| | | | i84 | 0.62 | 0.387 |
| | | | i85 | 0.56 | 0.439 |
| | | | i86 | 0.82 | 0.307 |
| | | | i87 | 0.86 | 0.321 |
| | | | i88 | 0.8 | 0.205 |
| | | | i89 | 0.76 | 0.415 |
| | | | i90 | 0.37 | 0.212 |
| | | | i91 | 0.72 | 0.398 |
| | | | i92 | 0.91 | 0.337 |
| | | | i93 | 0.48 | 0.16 |
| | | | i94 | 0.68 | 0.393 |
| | | | i95 | 0.88 | 0.316 |
| | | | i96 | 0.79 | 0.449 |
| | | | i97 | 0.39 | 0.291 |
| | | | i98 | 0.66 | 0.486 |
| | | | i99 | 0.73 | 0.46 |
| | | | i100 | 0.55 | 0.472 |
| | | | i101 | 0.67 | 0.479 |
| | | | i102 | 0.58 | 0.468 |
| | | | i103 | 0.39 | 0.434 |
| | | | i104 | 0.6 | 0.438 |
| | | | i105 | 0.54 | 0.325 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 7 | | | Grade 7 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i1 | 0.91 | 0.377 | i1 | 0.49 | 0.386 |
| i2 | 0.81 | 0.356 | i2 | 0.62 | 0.396 |
| i3 | 0.81 | 0.248 | i3 | 0.58 | 0.108 |
| i4 | 0.63 | 0.357 | i4 | 0.59 | 0.434 |
| i5 | 0.56 | 0.424 | i5 | 0.64 | 0.528 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 6 | | | Grade 6 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i6 | 0.84 | 0.462 | i6 | 0.49 | 0.393 |
| i7 | 0.87 | 0.285 | i7 | 0.78 | 0.393 |
| i8 | 0.81 | 0.391 | i8 | 0.64 | 0.494 |
| i9 | 0.71 | 0.411 | i9 | 0.36 | 0.408 |
| i10 | 0.83 | 0.351 | i10 | 0.64 | 0.455 |
| i11 | 0.94 | 0.347 | i11 | 0.43 | 0.543 |
| i12 | 0.88 | 0.41 | i12 | 0.53 | 0.41 |
| i13 | 0.58 | 0.411 | i13 | 0.5 | 0.443 |
| i14 | 0.5 | 0.342 | i14 | 0.69 | 0.483 |
| i15 | 0.72 | 0.397 | i15 | 0.83 | 0.273 |
| i16 | 0.64 | 0.317 | i16 | 0.45 | 0.341 |
| i17 | 0.94 | 0.411 | i17 | 0.46 | 0.487 |
| i18 | 0.78 | 0.216 | i18 | 0.69 | 0.455 |
| i19 | 0.69 | 0.355 | i19 | 0.32 | 0.394 |
| i20 | 0.69 | 0.508 | i20 | 0.73 | 0.476 |
| i21 | 0.77 | 0.371 | i21 | 0.3 | 0.254 |
| i22 | 0.79 | 0.473 | i22 | 0.61 | 0.544 |
| i23 | 0.6 | 0.284 | i23 | 0.61 | 0.439 |
| i24 | 0.84 | 0.414 | i24 | 0.77 | 0.456 |
| i25 | 0.62 | 0.312 | i25 | 0.69 | 0.347 |
| i26 | 0.79 | 0.449 | i26 | 0.86 | 0.321 |
| i27 | 0.58 | 0.326 | i27 | 0.49 | 0.426 |
| i28 | 0.67 | 0.412 | i28 | 0.42 | 0.463 |
| i29 | 0.48 | 0.361 | i29 | 0.59 | 0.542 |
| i30 | 0.88 | 0.289 | i30 | 0.66 | 0.5 |
| i31 | 0.69 | 0.438 | i31 | 0.76 | 0.176 |
| i32 | 0.72 | 0.351 | i32 | 0.52 | 0.495 |
| i33 | 0.64 | 0.285 | i33 | 0.76 | 0.462 |
| i34 | 0.74 | 0.301 | i34 | 0.75 | 0.413 |
| i35 | 0.5 | 0.198 | i35 | 0.53 | 0.452 |
| i36 | 0.77 | 0.416 | i36 | 0.6 | 0.359 |
| i37 | 0.78 | 0.466 | i37 | 0.81 | 0.38 |
| i38 | 0.79 | 0.431 | i38 | 0.61 | 0.39 |
| i39 | 0.73 | 0.502 | i39 | 0.39 | 0.378 |
| i40 | 0.7 | 0.427 | i40 | 0.74 | 0.498 |
| i41 | 0.44 | 0.315 | i41 | 0.58 | 0.438 |
| i42 | 0.86 | 0.475 | i42 | 0.33 | 0.256 |
| i43 | 0.46 | 0.252 | i43 | 0.59 | 0.507 |
| i44 | 0.59 | 0.481 | i44 | 0.62 | 0.408 |
| i45 | 0.6 | 0.279 | i45 | 0.64 | 0.448 |
| i46 | 0.53 | 0.249 | i46 | 0.55 | 0.57 |
| i47 | 0.61 | 0.442 | i47 | 0.44 | 0.376 |
| i48 | 0.85 | 0.48 | i48 | 0.49 | 0.486 |
| i49 | 0.54 | 0.369 | i49 | 0.62 | 0.418 |
| i50 | 0.49 | 0.301 | i50 | 0.58 | 0.417 |
| i51 | 0.5 | 0.209 | i51 | 0.75 | 0.559 |
| i52 | 0.26 | 0.116 | i52 | 0.5 | 0.329 |
| i53 | 0.66 | 0.519 | i53 | 0.78 | 0.382 |
| i54 | 0.66 | 0.328 | i54 | 0.4 | 0.228 |
| i55 | 0.39 | 0.205 | i55 | 0.57 | 0.556 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 6 | | | Grade 6 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| | i56 | 0.5 | 0.438 | | |
| | i57 | 0.77 | 0.49 | | |
| | i58 | 0.6 | 0.464 | | |
| | i59 | 0.7 | 0.47 | | |
| | i60 | 0.76 | 0.526 | | |
| | i61 | 0.34 | 0.226 | | |
| | i62 | 0.61 | 0.476 | | |
| | i63 | 0.38 | 0.397 | | |
| | i64 | 0.33 | 0.237 | | |
| | i65 | 0.48 | 0.223 | | |
| | i66 | 0.8 | 0.488 | | |
| | i67 | 0.69 | 0.45 | | |
| | i68 | 0.67 | 0.505 | | |
| | i69 | 0.59 | 0.517 | | |
| | i70 | 0.81 | 0.442 | | |
| | i71 | 0.4 | 0.11 | | |
| | i72 | 0.86 | 0.429 | | |
| | i73 | 0.75 | 0.465 | | |
| | i74 | 0.67 | 0.359 | | |
| | i75 | 0.56 | 0.378 | | |
| | i76 | 0.53 | 0.366 | | |
| | i77 | 0.21 | 0.152 | | |
| | i78 | 0.52 | 0.429 | | |
| | i79 | 0.48 | 0.342 | | |
| | i80 | 0.43 | 0.388 | | |
| | i81 | 0.6 | 0.541 | | |
| | i82 | 0.38 | 0.386 | | |
| | i83 | 0.62 | 0.561 | | |
| | i84 | 0.49 | 0.555 | | |
| | i85 | 0.48 | 0.481 | | |
| | i86 | 0.67 | 0.474 | | |
| | i87 | 0.55 | 0.34 | | |
| | i88 | 0.77 | 0.377 | | |
| | i89 | 0.44 | 0.286 | | |
| | i90 | 0.83 | 0.419 | | |
| | i91 | 0.79 | 0.303 | | |
| | i92 | 0.7 | 0.278 | | |
| | i93 | 0.47 | 0.378 | | |
| | i94 | 0.42 | 0.206 | | |
| | i95 | 0.39 | 0.218 | | |
| | i96 | 0.48 | 0.536 | | |
| | i97 | 0.48 | 0.371 | | |
| | i98 | 0.3 | 0.125 | | |
| | i99 | 0.47 | 0.455 | | |
| | i100 | 0.48 | 0.271 | | |
| | i101 | 0.39 | 0.423 | | |
| | i102 | 0.65 | 0.426 | | |
| | i103 | 0.49 | 0.437 | | |
| | i104 | 0.53 | 0.493 | | |
| | i105 | 0.66 | 0.382 | | |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 8 | | | Grade 8 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i1 | 0.68 | 0.228 | i1 | 0.61 | 0.39 |
| i2 | 0.84 | 0.272 | i2 | 0.66 | 0.449 |
| i3 | 0.79 | 0.357 | i3 | 0.46 | 0.534 |
| i4 | 0.56 | 0.448 | i4 | 0.47 | 0.299 |
| i5 | 0.91 | 0.335 | i5 | 0.5 | 0.426 |
| i6 | 0.7 | 0.323 | i6 | 0.61 | 0.491 |
| i7 | 0.48 | 0.415 | i7 | 0.29 | 0.296 |
| i8 | 0.56 | 0.172 | i8 | 0.77 | 0.474 |
| i9 | 0.52 | 0.228 | i9 | 0.65 | 0.375 |
| i10 | 0.8 | 0.194 | i10 | 0.61 | 0.448 |
| i11 | 0.67 | 0.205 | i11 | 0.55 | 0.311 |
| i12 | 0.71 | 0.419 | i12 | 0.54 | 0.482 |
| i13 | 0.67 | 0.35 | i13 | 0.72 | 0.394 |
| i14 | 0.7 | 0.375 | i14 | 0.48 | 0.461 |
| i15 | 0.7 | 0.346 | i15 | 0.78 | 0.393 |
| i16 | 0.64 | 0.279 | i16 | 0.42 | 0.356 |
| i17 | 0.49 | 0.192 | i17 | 0.65 | 0.483 |
| i18 | 0.95 | 0.357 | i18 | 0.55 | 0.414 |
| i19 | 0.57 | 0.272 | i19 | 0.54 | 0.507 |
| i20 | 0.89 | 0.439 | i20 | 0.8 | 0.326 |
| i21 | 0.73 | 0.267 | i21 | 0.91 | 0.307 |
| i22 | 0.68 | 0.196 | i22 | 0.52 | 0.517 |
| i23 | 0.5 | 0.187 | i23 | 0.7 | 0.399 |
| i24 | 0.66 | 0.374 | i24 | 0.69 | 0.362 |
| i25 | 0.56 | 0.155 | i25 | 0.62 | 0.428 |
| i26 | 0.76 | 0.368 | i26 | 0.66 | 0.372 |
| i27 | 0.75 | 0.411 | i27 | 0.45 | 0.425 |
| i28 | 0.72 | 0.449 | i28 | 0.48 | 0.295 |
| i29 | 0.73 | 0.449 | i29 | 0.52 | 0.293 |
| i30 | 0.74 | 0.358 | i30 | 0.44 | 0.247 |
| i31 | 0.75 | 0.483 | i31 | 0.51 | 0.433 |
| i32 | 0.68 | 0.383 | i32 | 0.66 | 0.348 |
| i33 | 0.83 | 0.484 | i33 | 0.67 | 0.441 |
| i34 | 0.88 | 0.427 | i34 | 0.73 | 0.56 |
| i35 | 0.72 | 0.452 | i35 | 0.82 | 0.42 |
| i36 | 0.58 | 0.196 | i36 | 0.4 | 0.072 |
| i37 | 0.76 | 0.488 | i37 | 0.46 | 0.266 |
| i38 | 0.73 | 0.525 | i38 | 0.68 | 0.455 |
| i39 | 0.75 | 0.391 | i39 | 0.65 | 0.424 |
| i40 | 0.65 | 0.457 | i40 | 0.53 | 0.389 |
| i41 | 0.83 | 0.481 | i41 | 0.6 | 0.386 |
| i42 | 0.53 | 0.351 | i42 | 0.84 | 0.428 |
| i43 | 0.55 | 0.217 | i43 | 0.7 | 0.496 |
| i44 | 0.69 | 0.565 | i44 | 0.55 | 0.381 |
| i45 | 0.71 | 0.487 | i45 | 0.79 | 0.428 |
| i46 | 0.71 | 0.485 | i46 | 0.56 | 0.493 |
| i47 | 0.62 | 0.431 | i47 | 0.69 | 0.431 |
| i48 | 0.51 | 0.504 | i48 | 0.6 | 0.514 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 8 | | | Grade 8 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i49 | 0.76 | 0.528 | i49 | 0.66 | 0.525 |
| | | | i50 | 0.52 | 0.52 |
| | | | i51 | 0.59 | 0.433 |
| | | | i52 | 0.55 | 0.399 |
| | | | i53 | 0.44 | 0.526 |
| | | | i54 | 0.69 | 0.475 |
| | | | i55 | 0.76 | 0.504 |
| | | | i56 | 0.69 | 0.453 |
| | | | i57 | 0.57 | 0.376 |
| | | | i58 | 0.86 | 0.414 |
| | | | i59 | 0.59 | 0.421 |
| | | | i60 | 0.67 | 0.532 |
| | | | i61 | 0.62 | 0.489 |
| | | | i62 | 0.7 | 0.555 |
| | | | i63 | 0.74 | 0.522 |
| | | | i64 | 0.54 | 0.457 |
| | | | i65 | 0.38 | 0.397 |
| | | | i66 | 0.44 | 0.338 |
| | | | i67 | 0.5 | 0.413 |
| | | | i68 | 0.73 | 0.464 |
| | | | i69 | 0.66 | 0.482 |
| | | | i70 | 0.52 | 0.387 |
| | | | i71 | 0.64 | 0.476 |
| | | | i72 | 0.3 | 0.306 |
| | | | i73 | 0.36 | 0.339 |
| | | | i74 | 0.44 | 0.291 |
| | | | i75 | 0.39 | 0.341 |
| | | | i76 | 0.7 | 0.453 |
| | | | i77 | 0.44 | 0.537 |
| | | | i78 | 0.57 | 0.333 |
| | | | i79 | 0.48 | 0.369 |
| | | | i80 | 0.41 | 0.312 |
| | | | i81 | 0.35 | 0.276 |
| | | | i82 | 0.48 | 0.497 |
| | | | i83 | 0.62 | 0.223 |
| | | | i84 | 0.63 | 0.438 |
| | | | i85 | 0.72 | 0.522 |
| | | | i86 | 0.63 | 0.417 |
| | | | i87 | 0.83 | 0.309 |
| | | | i88 | 0.34 | 0.305 |
| | | | i89 | 0.22 | 0.196 |
| | | | i90 | 0.47 | 0.177 |
| | | | i91 | 0.37 | 0.259 |
| | | | i92 | 0.2 | 0.101 |
| | | | i93 | 0.24 | 0.284 |
| | | | i94 | 0.29 | 0.136 |
| | | | i95 | 0.78 | 0.387 |
| | | | i96 | 0.5 | 0.455 |
| | | | i97 | 0.76 | 0.453 |
| | | | i98 | 0.71 | 0.514 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 8 | | | Grade 8 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| | | | i99 | 0.35 | 0.141 |
| | | | i100 | 0.65 | 0.398 |
| | | | i101 | 0.8 | 0.313 |
| | | | i102 | 0.75 | 0.415 |
| | | | i103 | 0.55 | 0.386 |
| | | | i104 | 0.25 | 0.255 |
| | | | i105 | 0.34 | 0.121 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 11 | | | Grade 11 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i1 | 0.95 | 0.275 | i1 | 0.61 | 0.335 |
| i2 | 0.87 | 0.292 | i2 | 0.66 | 0.557 |
| i3 | 0.87 | 0.244 | i3 | 0.51 | 0.325 |
| i4 | 0.69 | 0.309 | i4 | 0.47 | 0.42 |
| i5 | 0.9 | 0.353 | i5 | 0.64 | 0.47 |
| i6 | 0.97 | 0.291 | i6 | 0.53 | 0.203 |
| i7 | 0.8 | 0.315 | i7 | 0.7 | 0.326 |
| i8 | 0.8 | 0.463 | i8 | 0.43 | 0.206 |
| i9 | 0.87 | 0.421 | i9 | 0.44 | 0.456 |
| i10 | 0.73 | 0.239 | i10 | 0.54 | 0.498 |
| i11 | 0.86 | 0.203 | i11 | 0.56 | 0.466 |
| i12 | 0.8 | 0.386 | i12 | 0.74 | 0.289 |
| i13 | 0.41 | 0.35 | i13 | 0.35 | 0.361 |
| i14 | 0.85 | 0.366 | i14 | 0.66 | 0.296 |
| i15 | 0.7 | 0.382 | i15 | 0.37 | 0.144 |
| i16 | 0.57 | 0.387 | i16 | 0.37 | 0.225 |
| i17 | 0.58 | 0.169 | i17 | 0.52 | 0.395 |
| i18 | 0.63 | 0.42 | i18 | 0.6 | 0.357 |
| i19 | 0.67 | 0.288 | i19 | 0.25 | 0.115 |
| i20 | 0.38 | 0.153 | i20 | 0.74 | 0.331 |
| i21 | 0.86 | 0.411 | i21 | 0.75 | 0.458 |
| i22 | 0.84 | 0.498 | i22 | 0.56 | 0.383 |
| i23 | 0.63 | 0.34 | i23 | 0.31 | 0.33 |
| i24 | 0.55 | 0.282 | i24 | 0.33 | 0.288 |
| i25 | 0.53 | 0.404 | i25 | 0.39 | 0.39 |
| i26 | 0.35 | 0.225 | i26 | 0.47 | 0.334 |
| i27 | 0.77 | 0.208 | i27 | 0.37 | 0.427 |
| i28 | 0.78 | 0.375 | i28 | 0.86 | 0.331 |
| i29 | 0.85 | 0.436 | i29 | 0.57 | 0.365 |
| i30 | 0.76 | 0.424 | i30 | 0.63 | 0.459 |
| i31 | 0.54 | 0.208 | i31 | 0.55 | 0.444 |
| i32 | 0.59 | 0.35 | i32 | 0.63 | 0.334 |
| i33 | 0.81 | 0.429 | i33 | 0.76 | 0.519 |
| i34 | 0.7 | 0.402 | i34 | 0.92 | 0.297 |
| i35 | 0.7 | 0.448 | i35 | 0.77 | 0.543 |
| i36 | 0.76 | 0.491 | i36 | 0.7 | 0.426 |
| i37 | 0.57 | 0.373 | i37 | 0.61 | 0.433 |
| i38 | 0.88 | 0.472 | i38 | 0.76 | 0.539 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 11 | | | Grade 11 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| i39 | 0.39 | 0.282 | i39 | 0.63 | 0.542 |
| i40 | 0.41 | 0.086 | i40 | 0.58 | 0.582 |
| i41 | 0.84 | 0.424 | i41 | 0.79 | 0.5 |
| i42 | 0.65 | 0.434 | i42 | 0.87 | 0.434 |
| | | | i43 | 0.88 | 0.394 |
| | | | i44 | 0.71 | 0.408 |
| | | | i45 | 0.53 | 0.393 |
| | | | i46 | 0.8 | 0.396 |
| | | | i47 | 0.78 | 0.275 |
| | | | i48 | 0.67 | 0.398 |
| | | | i49 | 0.6 | 0.253 |
| | | | i50 | 0.63 | 0.439 |
| | | | i51 | 0.6 | 0.48 |
| | | | i52 | 0.64 | 0.391 |
| | | | i53 | 0.81 | 0.475 |
| | | | i54 | 0.53 | 0.516 |
| | | | i55 | 0.41 | 0.234 |
| | | | i56 | 0.54 | 0.506 |
| | | | i57 | 0.62 | 0.555 |
| | | | i58 | 0.55 | 0.319 |
| | | | i59 | 0.27 | 0.324 |
| | | | i60 | 0.74 | 0.35 |
| | | | i61 | 0.72 | 0.565 |
| | | | i62 | 0.36 | 0.442 |
| | | | i63 | 0.45 | 0.346 |
| | | | i64 | 0.49 | 0.42 |
| | | | i65 | 0.58 | 0.504 |
| | | | i66 | 0.63 | 0.526 |
| | | | i67 | 0.58 | 0.493 |
| | | | i68 | 0.65 | 0.503 |
| | | | i69 | 0.47 | 0.447 |
| | | | i70 | 0.56 | 0.565 |
| | | | i71 | 0.58 | 0.487 |
| | | | i72 | 0.68 | 0.513 |
| | | | i73 | 0.82 | 0.381 |
| | | | i74 | 0.27 | 0.286 |
| | | | i75 | 0.63 | 0.518 |
| | | | i76 | 0.5 | 0.483 |
| | | | i77 | 0.64 | 0.517 |
| | | | i78 | 0.58 | 0.386 |
| | | | i79 | 0.48 | 0.522 |
| | | | i80 | 0.38 | 0.258 |
| | | | i81 | 0.49 | 0.25 |
| | | | i82 | 0.65 | 0.461 |
| | | | i83 | 0.46 | 0.509 |
| | | | i84 | 0.5 | 0.424 |
| | | | i85 | 0.45 | 0.342 |
| | | | i86 | 0.44 | 0.407 |
| | | | i87 | 0.47 | 0.505 |
| | | | i88 | 0.61 | 0.503 |

| STEP Reading | | | STEP Math | | |
|--------------|---------|-----------|-----------|---------|-----------|
| Grade 11 | | | Grade 11 | | |
| Item No. | p-value | point bis | Item No. | p-value | point bis |
| | | | i89 | 0.53 | 0.396 |
| | | | i90 | 0.36 | 0.408 |
| | | | i91 | 0.49 | 0.26 |
| | | | i92 | 0.88 | 0.387 |
| | | | i93 | 0.43 | 0.28 |
| | | | i94 | 0.8 | 0.384 |
| | | | i95 | 0.65 | 0.517 |
| | | | i96 | 0.4 | 0.314 |
| | | | i97 | 0.5 | 0.305 |
| | | | i98 | 0.49 | 0.414 |
| | | | i99 | 0.5 | 0.466 |
| | | | i100 | 0.54 | 0.428 |
| | | | i101 | 0.44 | 0.282 |
| | | | i102 | 0.62 | 0.541 |
| | | | i103 | 0.49 | 0.368 |
| | | | i104 | 0.64 | 0.354 |
| | | | i105 | 0.52 | 0.444 |

Appendix 2

Raw Score (RS) and Scale Score (SS) Frequency Distribution for STEP 2004

| Grade 3 | | | | | | | | | | | |
|--------------|-----|-----|----------|-------|-----------|----|-----|----------|-------|------|-------|
| STEP Reading | | | | | STEP Math | | | | | | |
| RS | SS | FR | % Cum FR | Cum % | RS | SS | FR | % Cum FR | Cum % | | |
| 8 | 518 | 1 | 0.01 | 1 | 0.01 | 9 | 487 | 1 | 0.01 | 1 | 0.01 |
| 9 | 523 | 1 | 0.01 | 2 | 0.02 | 10 | 491 | 1 | 0.01 | 2 | 0.02 |
| 10 | 528 | 3 | 0.03 | 5 | 0.05 | 13 | 502 | 1 | 0.01 | 3 | 0.03 |
| 11 | 533 | 8 | 0.08 | 13 | 0.13 | 15 | 509 | 1 | 0.01 | 4 | 0.04 |
| 12 | 537 | 14 | 0.14 | 27 | 0.27 | 16 | 511 | 1 | 0.01 | 5 | 0.05 |
| 13 | 541 | 21 | 0.21 | 48 | 0.48 | 17 | 514 | 1 | 0.01 | 6 | 0.06 |
| 14 | 545 | 28 | 0.28 | 76 | 0.76 | 18 | 517 | 3 | 0.03 | 9 | 0.09 |
| 15 | 549 | 34 | 0.34 | 110 | 1.1 | 19 | 519 | 1 | 0.01 | 10 | 0.1 |
| 16 | 552 | 40 | 0.4 | 150 | 1.51 | 20 | 522 | 3 | 0.03 | 13 | 0.13 |
| 17 | 556 | 66 | 0.66 | 216 | 2.17 | 21 | 524 | 10 | 0.1 | 23 | 0.23 |
| 18 | 559 | 73 | 0.73 | 289 | 2.9 | 22 | 526 | 4 | 0.04 | 27 | 0.27 |
| 19 | 562 | 70 | 0.7 | 359 | 3.61 | 23 | 528 | 9 | 0.09 | 36 | 0.36 |
| 20 | 565 | 97 | 0.97 | 456 | 4.58 | 24 | 531 | 17 | 0.17 | 53 | 0.53 |
| 21 | 568 | 104 | 1.04 | 560 | 5.63 | 25 | 533 | 18 | 0.18 | 71 | 0.71 |
| 22 | 571 | 118 | 1.19 | 678 | 6.81 | 26 | 535 | 35 | 0.35 | 106 | 1.06 |
| 23 | 574 | 112 | 1.13 | 790 | 7.94 | 27 | 537 | 34 | 0.34 | 140 | 1.4 |
| 24 | 577 | 107 | 1.07 | 897 | 9.01 | 28 | 539 | 29 | 0.29 | 169 | 1.69 |
| 25 | 580 | 107 | 1.07 | 1004 | 10.09 | 29 | 540 | 35 | 0.35 | 204 | 2.04 |
| 26 | 582 | 115 | 1.16 | 1119 | 11.24 | 30 | 542 | 52 | 0.52 | 256 | 2.55 |
| 27 | 585 | 128 | 1.29 | 1247 | 12.53 | 31 | 544 | 30 | 0.3 | 286 | 2.85 |
| 28 | 588 | 132 | 1.33 | 1379 | 13.85 | 32 | 546 | 52 | 0.52 | 338 | 3.37 |
| 29 | 591 | 125 | 1.26 | 1504 | 15.11 | 33 | 548 | 48 | 0.48 | 386 | 3.85 |
| 30 | 593 | 138 | 1.39 | 1642 | 16.49 | 34 | 549 | 45 | 0.45 | 431 | 4.3 |
| 31 | 596 | 174 | 1.75 | 1816 | 18.24 | 35 | 551 | 55 | 0.55 | 486 | 4.85 |
| 32 | 599 | 160 | 1.61 | 1976 | 19.85 | 36 | 553 | 65 | 0.65 | 551 | 5.5 |
| 33 | 601 | 156 | 1.57 | 2132 | 21.42 | 37 | 554 | 59 | 0.59 | 610 | 6.09 |
| 34 | 604 | 181 | 1.82 | 2313 | 23.23 | 38 | 556 | 75 | 0.75 | 685 | 6.84 |
| 35 | 607 | 182 | 1.83 | 2495 | 25.06 | 39 | 558 | 79 | 0.79 | 764 | 7.62 |
| 36 | 609 | 194 | 1.95 | 2689 | 27.01 | 40 | 559 | 76 | 0.76 | 840 | 8.38 |
| 37 | 612 | 222 | 2.23 | 2911 | 29.24 | 41 | 561 | 84 | 0.84 | 924 | 9.22 |
| 38 | 615 | 230 | 2.31 | 3141 | 31.55 | 42 | 562 | 89 | 0.89 | 1013 | 10.11 |
| 39 | 618 | 217 | 2.18 | 3358 | 33.73 | 43 | 564 | 82 | 0.82 | 1095 | 10.93 |
| 40 | 621 | 253 | 2.54 | 3611 | 36.27 | 44 | 566 | 72 | 0.72 | 1167 | 11.65 |
| 41 | 623 | 275 | 2.76 | 3886 | 39.04 | 45 | 567 | 89 | 0.89 | 1256 | 12.53 |
| 42 | 626 | 310 | 3.11 | 4196 | 42.15 | 46 | 569 | 85 | 0.85 | 1341 | 13.38 |
| 43 | 629 | 300 | 3.01 | 4496 | 45.16 | 47 | 570 | 88 | 0.88 | 1429 | 14.26 |
| 44 | 632 | 308 | 3.09 | 4804 | 48.26 | 48 | 572 | 81 | 0.81 | 1510 | 15.07 |
| 45 | 636 | 296 | 2.97 | 5100 | 51.23 | 49 | 573 | 100 | 1 | 1610 | 16.07 |
| 46 | 639 | 326 | 3.27 | 5426 | 54.51 | 50 | 575 | 115 | 1.15 | 1725 | 17.22 |
| 47 | 642 | 366 | 3.68 | 5792 | 58.18 | 51 | 576 | 118 | 1.18 | 1843 | 18.39 |
| 48 | 646 | 383 | 3.85 | 6175 | 62.03 | 52 | 578 | 112 | 1.12 | 1955 | 19.51 |
| 49 | 649 | 385 | 3.87 | 6560 | 65.9 | 53 | 579 | 114 | 1.14 | 2069 | 20.65 |
| 50 | 653 | 376 | 3.78 | 6936 | 69.67 | 54 | 581 | 129 | 1.29 | 2198 | 21.94 |
| 51 | 657 | 416 | 4.18 | 7352 | 73.85 | 55 | 582 | 100 | 1 | 2298 | 22.93 |
| 52 | 661 | 352 | 3.54 | 7704 | 77.39 | 56 | 584 | 119 | 1.19 | 2417 | 24.12 |
| 53 | 666 | 393 | 3.95 | 8097 | 81.34 | 57 | 586 | 105 | 1.05 | 2522 | 25.17 |
| 54 | 670 | 353 | 3.55 | 8450 | 84.88 | 58 | 587 | 133 | 1.33 | 2655 | 26.5 |
| 55 | 676 | 338 | 3.4 | 8788 | 88.28 | 59 | 589 | 139 | 1.39 | 2794 | 27.88 |
| 56 | 681 | 296 | 2.97 | 9084 | 91.25 | 60 | 590 | 148 | 1.48 | 2942 | 29.36 |

SD STEP 2004 Spring Administration

Grade 3

| STEP Reading | | | | | | STEP Math | | | | | |
|--------------|-----|-----|------|--------|-------|-----------|-----|-----|------|--------|-------|
| RS | SS | FR | % | Cum FR | Cum % | RS | SS | FR | % | Cum FR | Cum % |
| 57 | 688 | 262 | 2.63 | 9346 | 93.88 | 61 | 592 | 139 | 1.39 | 3081 | 30.75 |
| 58 | 695 | 219 | 2.2 | 9565 | 96.08 | 62 | 593 | 154 | 1.54 | 3235 | 32.29 |
| 59 | 704 | 165 | 1.66 | 9730 | 97.74 | 63 | 595 | 131 | 1.31 | 3366 | 33.59 |
| 60 | 716 | 135 | 1.36 | 9865 | 99.1 | 64 | 596 | 146 | 1.46 | 3512 | 35.05 |
| 61 | 731 | 59 | 0.59 | 9924 | 99.69 | 65 | 598 | 148 | 1.48 | 3660 | 36.53 |
| 62 | 756 | 28 | 0.28 | 9952 | 99.97 | 66 | 600 | 170 | 1.7 | 3830 | 38.22 |
| 63 | 779 | 3 | 0.03 | 9955 | 100 | 67 | 601 | 160 | 1.6 | 3990 | 39.82 |
| | | | | | | 68 | 603 | 156 | 1.56 | 4146 | 41.38 |
| | | | | | | 69 | 605 | 162 | 1.62 | 4308 | 42.99 |
| | | | | | | 70 | 606 | 172 | 1.72 | 4480 | 44.71 |
| | | | | | | 71 | 608 | 162 | 1.62 | 4642 | 46.33 |
| | | | | | | 72 | 610 | 204 | 2.04 | 4846 | 48.36 |
| | | | | | | 73 | 612 | 206 | 2.06 | 5052 | 50.42 |
| | | | | | | 74 | 613 | 198 | 1.98 | 5250 | 52.4 |
| | | | | | | 75 | 615 | 211 | 2.11 | 5461 | 54.5 |
| | | | | | | 76 | 617 | 166 | 1.66 | 5627 | 56.16 |
| | | | | | | 77 | 619 | 219 | 2.19 | 5846 | 58.34 |
| | | | | | | 78 | 621 | 213 | 2.13 | 6059 | 60.47 |
| | | | | | | 79 | 623 | 196 | 1.96 | 6255 | 62.43 |
| | | | | | | 80 | 625 | 199 | 1.99 | 6454 | 64.41 |
| | | | | | | 81 | 627 | 243 | 2.43 | 6697 | 66.84 |
| | | | | | | 82 | 629 | 208 | 2.08 | 6905 | 68.91 |
| | | | | | | 83 | 631 | 232 | 2.32 | 7137 | 71.23 |
| | | | | | | 84 | 634 | 230 | 2.3 | 7367 | 73.52 |
| | | | | | | 85 | 636 | 218 | 2.18 | 7585 | 75.7 |
| | | | | | | 86 | 638 | 218 | 2.18 | 7803 | 77.87 |
| | | | | | | 87 | 641 | 173 | 1.73 | 7976 | 79.6 |
| | | | | | | 88 | 643 | 210 | 2.1 | 8186 | 81.7 |
| | | | | | | 89 | 646 | 215 | 2.15 | 8401 | 83.84 |
| | | | | | | 90 | 649 | 177 | 1.77 | 8578 | 85.61 |
| | | | | | | 91 | 652 | 215 | 2.15 | 8793 | 87.75 |
| | | | | | | 92 | 655 | 172 | 1.72 | 8965 | 89.47 |
| | | | | | | 93 | 659 | 180 | 1.8 | 9145 | 91.27 |
| | | | | | | 94 | 662 | 156 | 1.56 | 9301 | 92.82 |
| | | | | | | 95 | 666 | 118 | 1.18 | 9419 | 94 |
| | | | | | | 96 | 671 | 144 | 1.44 | 9563 | 95.44 |
| | | | | | | 97 | 676 | 104 | 1.04 | 9667 | 96.48 |
| | | | | | | 98 | 681 | 86 | 0.86 | 9753 | 97.34 |
| | | | | | | 99 | 687 | 86 | 0.86 | 9839 | 98.19 |
| | | | | | | 100 | 694 | 65 | 0.65 | 9904 | 98.84 |
| | | | | | | 101 | 702 | 53 | 0.53 | 9957 | 99.37 |
| | | | | | | 102 | 713 | 39 | 0.39 | 9996 | 99.76 |
| | | | | | | 103 | 728 | 14 | 0.14 | 10010 | 99.9 |
| | | | | | | 104 | 753 | 9 | 0.09 | 10019 | 99.99 |
| | | | | | | 105 | 775 | 1 | 0.01 | 10020 | 100 |

| Grade 4 | | | | | | | | | | | |
|--------------|-----|-----|------|--------|-------|-----------|-----|-----|------|--------|-------|
| STEP Reading | | | | | | STEP Math | | | | | |
| RS | SS | FR | % | Cum FR | Cum % | RS | SS | FR | % | Cum FR | Cum % |
| 4 | 507 | 1 | 0.01 | 1 | 0.01 | 10 | 526 | 1 | 0.01 | 1 | 0.01 |
| 5 | 517 | 1 | 0.01 | 2 | 0.02 | 17 | 550 | 4 | 0.04 | 5 | 0.05 |
| 6 | 525 | 4 | 0.04 | 6 | 0.06 | 18 | 552 | 2 | 0.02 | 7 | 0.07 |
| 7 | 533 | 8 | 0.08 | 14 | 0.14 | 19 | 555 | 4 | 0.04 | 11 | 0.11 |
| 8 | 540 | 21 | 0.2 | 35 | 0.34 | 20 | 558 | 5 | 0.05 | 16 | 0.15 |
| 9 | 546 | 32 | 0.31 | 67 | 0.65 | 21 | 560 | 14 | 0.14 | 30 | 0.29 |
| 10 | 552 | 41 | 0.4 | 108 | 1.05 | 22 | 562 | 15 | 0.15 | 45 | 0.44 |
| 11 | 557 | 60 | 0.58 | 168 | 1.63 | 23 | 565 | 26 | 0.25 | 71 | 0.69 |
| 12 | 562 | 76 | 0.74 | 244 | 2.36 | 24 | 567 | 25 | 0.24 | 96 | 0.93 |
| 13 | 567 | 120 | 1.16 | 364 | 3.53 | 25 | 569 | 18 | 0.17 | 114 | 1.1 |
| 14 | 572 | 152 | 1.47 | 516 | 5 | 26 | 571 | 51 | 0.49 | 165 | 1.6 |
| 15 | 577 | 155 | 1.5 | 671 | 6.5 | 27 | 573 | 44 | 0.43 | 209 | 2.02 |
| 16 | 581 | 175 | 1.7 | 846 | 8.2 | 28 | 575 | 62 | 0.6 | 271 | 2.62 |
| 17 | 586 | 168 | 1.63 | 1014 | 9.83 | 29 | 577 | 63 | 0.61 | 334 | 3.23 |
| 18 | 590 | 186 | 1.8 | 1200 | 11.63 | 30 | 579 | 70 | 0.68 | 404 | 3.91 |
| 19 | 594 | 216 | 2.09 | 1416 | 13.72 | 31 | 581 | 90 | 0.87 | 494 | 4.78 |
| 20 | 598 | 193 | 1.87 | 1609 | 15.59 | 32 | 583 | 75 | 0.73 | 569 | 5.51 |
| 21 | 603 | 252 | 2.44 | 1861 | 18.03 | 33 | 585 | 93 | 0.9 | 662 | 6.4 |
| 22 | 607 | 240 | 2.33 | 2101 | 20.36 | 34 | 586 | 94 | 0.91 | 756 | 7.31 |
| 23 | 611 | 224 | 2.17 | 2325 | 22.53 | 35 | 588 | 87 | 0.84 | 843 | 8.16 |
| 24 | 615 | 294 | 2.85 | 2619 | 25.38 | 36 | 590 | 90 | 0.87 | 933 | 9.03 |
| 25 | 619 | 312 | 3.02 | 2931 | 28.4 | 37 | 592 | 99 | 0.96 | 1032 | 9.98 |
| 26 | 624 | 327 | 3.17 | 3258 | 31.57 | 38 | 593 | 91 | 0.88 | 1123 | 10.86 |
| 27 | 628 | 380 | 3.68 | 3638 | 35.25 | 39 | 595 | 110 | 1.06 | 1233 | 11.93 |
| 28 | 632 | 359 | 3.48 | 3997 | 38.73 | 40 | 597 | 102 | 0.99 | 1335 | 12.92 |
| 29 | 637 | 408 | 3.95 | 4405 | 42.68 | 41 | 598 | 110 | 1.06 | 1445 | 13.98 |
| 30 | 642 | 455 | 4.41 | 4860 | 47.09 | 42 | 600 | 109 | 1.05 | 1554 | 15.03 |
| 31 | 647 | 474 | 4.59 | 5334 | 51.69 | 43 | 602 | 119 | 1.15 | 1673 | 16.19 |
| 32 | 652 | 526 | 5.1 | 5860 | 56.78 | 44 | 603 | 109 | 1.05 | 1782 | 17.24 |
| 33 | 657 | 559 | 5.42 | 6419 | 62.2 | 45 | 605 | 123 | 1.19 | 1905 | 18.43 |
| 34 | 663 | 644 | 6.24 | 7063 | 68.44 | 46 | 607 | 138 | 1.34 | 2043 | 19.77 |
| 35 | 670 | 606 | 5.87 | 7669 | 74.31 | 47 | 608 | 122 | 1.18 | 2165 | 20.95 |
| 36 | 677 | 619 | 6 | 8288 | 80.31 | 48 | 610 | 143 | 1.38 | 2308 | 22.33 |
| 37 | 685 | 612 | 5.93 | 8900 | 86.24 | 49 | 611 | 129 | 1.25 | 2437 | 23.58 |
| 38 | 695 | 537 | 5.2 | 9437 | 91.44 | 50 | 613 | 146 | 1.41 | 2583 | 24.99 |
| 39 | 706 | 427 | 4.14 | 9864 | 95.58 | 51 | 615 | 144 | 1.39 | 2727 | 26.38 |
| 40 | 722 | 281 | 2.72 | 10145 | 98.3 | 52 | 616 | 149 | 1.44 | 2876 | 27.83 |
| 41 | 748 | 123 | 1.19 | 10268 | 99.5 | 53 | 618 | 138 | 1.34 | 3014 | 29.16 |
| 42 | 772 | 52 | 0.5 | 10320 | 100 | 54 | 619 | 139 | 1.34 | 3153 | 30.51 |
| | | | | | | 55 | 621 | 143 | 1.38 | 3296 | 31.89 |
| | | | | | | 56 | 623 | 170 | 1.64 | 3466 | 33.53 |
| | | | | | | 57 | 624 | 147 | 1.42 | 3613 | 34.96 |
| | | | | | | 58 | 626 | 170 | 1.64 | 3783 | 36.6 |
| | | | | | | 59 | 627 | 172 | 1.66 | 3955 | 38.26 |
| | | | | | | 60 | 629 | 168 | 1.63 | 4123 | 39.89 |
| | | | | | | 61 | 631 | 163 | 1.58 | 4286 | 41.47 |
| | | | | | | 62 | 632 | 173 | 1.67 | 4459 | 43.14 |
| | | | | | | 63 | 634 | 190 | 1.84 | 4649 | 44.98 |
| | | | | | | 64 | 636 | 161 | 1.56 | 4810 | 46.54 |

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| Grade 4 | | | | | |
|--------------|----|----|-----------|--------|-------|
| STEP Reading | | | STEP Math | | |
| RS | SS | FR | % | Cum FR | Cum % |
| | | | | 65 | 48.48 |
| | | | | 66 | 50.33 |
| | | | | 67 | 52.11 |
| | | | | 68 | 53.91 |
| | | | | 69 | 55.81 |
| | | | | 70 | 57.61 |
| | | | | 71 | 59.51 |
| | | | | 72 | 61.46 |
| | | | | 73 | 63.35 |
| | | | | 74 | 65.25 |
| | | | | 75 | 67.13 |
| | | | | 76 | 68.63 |
| | | | | 77 | 70.8 |
| | | | | 78 | 72.7 |
| | | | | 79 | 74.71 |
| | | | | 80 | 76.34 |
| | | | | 81 | 78.3 |
| | | | | 82 | 80.15 |
| | | | | 83 | 81.78 |
| | | | | 84 | 83.32 |
| | | | | 85 | 85.27 |
| | | | | 86 | 86.8 |
| | | | | 87 | 88.52 |
| | | | | 88 | 90.06 |
| | | | | 89 | 91.38 |
| | | | | 90 | 92.75 |
| | | | | 91 | 93.78 |
| | | | | 92 | 94.97 |
| | | | | 93 | 95.89 |
| | | | | 94 | 96.76 |
| | | | | 95 | 97.56 |
| | | | | 96 | 98.14 |
| | | | | 97 | 98.63 |
| | | | | 98 | 99.05 |
| | | | | 99 | 99.35 |
| | | | | 100 | 99.61 |
| | | | | 101 | 99.82 |
| | | | | 102 | 99.91 |
| | | | | 103 | 99.96 |
| | | | | 104 | 99.99 |
| | | | | 105 | 100 |

| Grade 5 | | | | | | | | | | | |
|--------------|-----|-----|------|--------|-----------|----|-----|-----|----------|-------|-------|
| STEP Reading | | | | | STEP Math | | | | | | |
| RS | SS | FR | % | Cum FR | Cum % | RS | SS | FR | % Cum FR | Cum % | |
| 4 | 533 | 2 | 0.02 | 2 | 0.02 | 15 | 568 | 1 | 0.01 | 1 | 0.01 |
| 5 | 543 | 3 | 0.03 | 5 | 0.05 | 17 | 574 | 4 | 0.04 | 5 | 0.05 |
| 6 | 551 | 9 | 0.09 | 14 | 0.13 | 18 | 576 | 3 | 0.03 | 8 | 0.08 |
| 7 | 558 | 15 | 0.14 | 29 | 0.28 | 19 | 579 | 7 | 0.07 | 15 | 0.14 |
| 8 | 564 | 25 | 0.24 | 54 | 0.51 | 20 | 581 | 8 | 0.08 | 23 | 0.22 |
| 9 | 570 | 40 | 0.38 | 94 | 0.89 | 21 | 584 | 17 | 0.16 | 40 | 0.38 |
| 10 | 575 | 63 | 0.6 | 157 | 1.49 | 22 | 586 | 21 | 0.2 | 61 | 0.58 |
| 11 | 580 | 80 | 0.76 | 237 | 2.25 | 23 | 588 | 22 | 0.21 | 83 | 0.79 |
| 12 | 585 | 98 | 0.93 | 335 | 3.18 | 24 | 590 | 36 | 0.34 | 119 | 1.13 |
| 13 | 589 | 120 | 1.14 | 455 | 4.32 | 25 | 592 | 27 | 0.26 | 146 | 1.39 |
| 14 | 593 | 141 | 1.34 | 596 | 5.66 | 26 | 594 | 56 | 0.53 | 202 | 1.92 |
| 15 | 598 | 152 | 1.44 | 748 | 7.11 | 27 | 596 | 58 | 0.55 | 260 | 2.47 |
| 16 | 602 | 177 | 1.68 | 925 | 8.79 | 28 | 598 | 59 | 0.56 | 319 | 3.03 |
| 17 | 606 | 163 | 1.55 | 1088 | 10.34 | 29 | 600 | 65 | 0.62 | 384 | 3.64 |
| 18 | 610 | 179 | 1.7 | 1267 | 12.04 | 30 | 602 | 79 | 0.75 | 463 | 4.39 |
| 19 | 614 | 222 | 2.11 | 1489 | 14.15 | 31 | 604 | 88 | 0.84 | 551 | 5.23 |
| 20 | 618 | 188 | 1.79 | 1677 | 15.94 | 32 | 605 | 83 | 0.79 | 634 | 6.02 |
| 21 | 622 | 260 | 2.47 | 1937 | 18.41 | 33 | 607 | 94 | 0.89 | 728 | 6.91 |
| 22 | 625 | 279 | 2.65 | 2216 | 21.06 | 34 | 609 | 126 | 1.2 | 854 | 8.1 |
| 23 | 629 | 310 | 2.95 | 2526 | 24.01 | 35 | 611 | 111 | 1.05 | 965 | 9.16 |
| 24 | 633 | 342 | 3.25 | 2868 | 27.26 | 36 | 612 | 80 | 0.76 | 1045 | 9.92 |
| 25 | 637 | 354 | 3.36 | 3222 | 30.62 | 37 | 614 | 108 | 1.02 | 1153 | 10.94 |
| 26 | 641 | 429 | 4.08 | 3651 | 34.7 | 38 | 616 | 123 | 1.17 | 1276 | 12.11 |
| 27 | 646 | 445 | 4.23 | 4096 | 38.93 | 39 | 617 | 102 | 0.97 | 1378 | 13.08 |
| 28 | 650 | 463 | 4.4 | 4559 | 43.33 | 40 | 619 | 121 | 1.15 | 1499 | 14.23 |
| 29 | 654 | 489 | 4.65 | 5048 | 47.98 | 41 | 620 | 133 | 1.26 | 1632 | 15.49 |
| 30 | 659 | 560 | 5.32 | 5608 | 53.3 | 42 | 622 | 137 | 1.3 | 1769 | 16.79 |
| 31 | 664 | 555 | 5.28 | 6163 | 58.58 | 43 | 624 | 144 | 1.37 | 1913 | 18.16 |
| 32 | 669 | 627 | 5.96 | 6790 | 64.54 | 44 | 625 | 139 | 1.32 | 2052 | 19.47 |
| 33 | 675 | 661 | 6.28 | 7451 | 70.82 | 45 | 627 | 113 | 1.07 | 2165 | 20.55 |
| 34 | 680 | 618 | 5.87 | 8069 | 76.69 | 46 | 628 | 141 | 1.34 | 2306 | 21.88 |
| 35 | 687 | 594 | 5.65 | 8663 | 82.34 | 47 | 630 | 170 | 1.61 | 2476 | 23.5 |
| 36 | 694 | 598 | 5.68 | 9261 | 88.02 | 48 | 631 | 159 | 1.51 | 2635 | 25.01 |
| 37 | 702 | 505 | 4.8 | 9766 | 92.82 | 49 | 633 | 132 | 1.25 | 2767 | 26.26 |
| 38 | 712 | 356 | 3.38 | 10122 | 96.21 | 50 | 634 | 126 | 1.2 | 2893 | 27.46 |
| 39 | 723 | 235 | 2.23 | 10357 | 98.44 | 51 | 636 | 144 | 1.37 | 3037 | 28.82 |
| 40 | 739 | 120 | 1.14 | 10477 | 99.58 | 52 | 637 | 150 | 1.42 | 3187 | 30.25 |
| 41 | 765 | 41 | 0.39 | 10518 | 99.97 | 53 | 639 | 162 | 1.54 | 3349 | 31.78 |
| 42 | 789 | 3 | 0.03 | 10521 | 100 | 54 | 640 | 179 | 1.7 | 3528 | 33.48 |
| | | | | | | 55 | 642 | 151 | 1.43 | 3679 | 34.92 |
| | | | | | | 56 | 643 | 156 | 1.48 | 3835 | 36.4 |
| | | | | | | 57 | 645 | 176 | 1.67 | 4011 | 38.07 |
| | | | | | | 58 | 647 | 163 | 1.55 | 4174 | 39.61 |
| | | | | | | 59 | 648 | 173 | 1.64 | 4347 | 41.25 |
| | | | | | | 60 | 650 | 156 | 1.48 | 4503 | 42.74 |
| | | | | | | 61 | 651 | 159 | 1.51 | 4662 | 44.24 |
| | | | | | | 62 | 653 | 183 | 1.74 | 4845 | 45.98 |
| | | | | | | 63 | 654 | 212 | 2.01 | 5057 | 47.99 |

SD STEP 2004 Spring Administration

| Grade 5 | | | | | |
|--------------|-----|-----|-----------|--------|-------------|
| STEP Reading | | | STEP Math | | |
| RS | SS | FR | % | Cum FR | Cum % |
| | 64 | 656 | 166 | 1.58 | 5223 49.57 |
| | 65 | 658 | 185 | 1.76 | 5408 51.32 |
| | 66 | 659 | 165 | 1.57 | 5573 52.89 |
| | 67 | 661 | 189 | 1.79 | 5762 54.68 |
| | 68 | 662 | 202 | 1.92 | 5964 56.6 |
| | 69 | 664 | 186 | 1.77 | 6150 58.37 |
| | 70 | 666 | 192 | 1.82 | 6342 60.19 |
| | 71 | 668 | 193 | 1.83 | 6535 62.02 |
| | 72 | 669 | 205 | 1.95 | 6740 63.97 |
| | 73 | 671 | 184 | 1.75 | 6924 65.71 |
| | 74 | 673 | 216 | 2.05 | 7140 67.76 |
| | 75 | 675 | 189 | 1.79 | 7329 69.55 |
| | 76 | 677 | 177 | 1.68 | 7506 71.23 |
| | 77 | 679 | 201 | 1.91 | 7707 73.14 |
| | 78 | 681 | 181 | 1.72 | 7888 74.86 |
| | 79 | 683 | 181 | 1.72 | 8069 76.58 |
| | 80 | 685 | 182 | 1.73 | 8251 78.31 |
| | 81 | 687 | 166 | 1.58 | 8417 79.88 |
| | 82 | 689 | 186 | 1.77 | 8603 81.65 |
| | 83 | 691 | 159 | 1.51 | 8762 83.15 |
| | 84 | 693 | 170 | 1.61 | 8932 84.77 |
| | 85 | 696 | 166 | 1.58 | 9098 86.34 |
| | 86 | 698 | 146 | 1.39 | 9244 87.73 |
| | 87 | 701 | 177 | 1.68 | 9421 89.41 |
| | 88 | 703 | 136 | 1.29 | 9557 90.7 |
| | 89 | 706 | 172 | 1.63 | 9729 92.33 |
| | 90 | 709 | 118 | 1.12 | 9847 93.45 |
| | 91 | 712 | 126 | 1.2 | 9973 94.65 |
| | 92 | 715 | 109 | 1.03 | 10082 95.68 |
| | 93 | 719 | 97 | 0.92 | 10179 96.6 |
| | 94 | 723 | 74 | 0.7 | 10253 97.3 |
| | 95 | 727 | 68 | 0.65 | 10321 97.95 |
| | 96 | 731 | 72 | 0.68 | 10393 98.63 |
| | 97 | 736 | 33 | 0.31 | 10426 98.95 |
| | 98 | 741 | 42 | 0.4 | 10468 99.35 |
| | 99 | 747 | 29 | 0.28 | 10497 99.62 |
| | 100 | 754 | 16 | 0.15 | 10513 99.77 |
| | 101 | 763 | 7 | 0.07 | 10520 99.84 |
| | 102 | 773 | 9 | 0.09 | 10529 99.92 |
| | 103 | 788 | 6 | 0.06 | 10535 99.98 |
| | 104 | 813 | 2 | 0.02 | 10537 100 |

| Grade 6 | | | | | | | | | |
|--------------|-----|-----|------|--------|-----------|----|-----|-----|-------|
| STEP Reading | | | | | STEP Math | | | | |
| RS | SS | FR | % | Cum FR | RS | SS | FR | % | Cum % |
| 6 | 543 | 1 | 0.01 | 1 | 0.01 | 0 | 471 | 1 | 0.01 |
| 7 | 549 | 1 | 0.01 | 2 | 0.02 | 3 | 511 | 1 | 0.01 |
| 8 | 555 | 1 | 0.01 | 3 | 0.03 | 12 | 565 | 1 | 0.01 |
| 9 | 560 | 3 | 0.03 | 6 | 0.05 | 13 | 568 | 1 | 0.01 |
| 10 | 565 | 5 | 0.05 | 11 | 0.1 | 16 | 578 | 6 | 0.05 |
| 11 | 569 | 15 | 0.14 | 26 | 0.24 | 18 | 583 | 2 | 0.02 |
| 12 | 573 | 12 | 0.11 | 38 | 0.35 | 19 | 585 | 3 | 0.03 |
| 13 | 577 | 32 | 0.29 | 70 | 0.64 | 20 | 588 | 10 | 0.09 |
| 14 | 581 | 55 | 0.5 | 125 | 1.14 | 21 | 590 | 15 | 0.14 |
| 15 | 585 | 50 | 0.46 | 175 | 1.6 | 22 | 593 | 26 | 0.24 |
| 16 | 588 | 75 | 0.68 | 250 | 2.28 | 23 | 595 | 20 | 0.18 |
| 17 | 591 | 85 | 0.78 | 335 | 3.06 | 24 | 597 | 30 | 0.27 |
| 18 | 594 | 85 | 0.78 | 420 | 3.83 | 25 | 599 | 29 | 0.26 |
| 19 | 597 | 94 | 0.86 | 514 | 4.69 | 26 | 601 | 50 | 0.46 |
| 20 | 600 | 99 | 0.9 | 613 | 5.59 | 27 | 603 | 66 | 0.6 |
| 21 | 603 | 106 | 0.97 | 719 | 6.56 | 28 | 605 | 55 | 0.5 |
| 22 | 606 | 120 | 1.1 | 839 | 7.66 | 29 | 607 | 63 | 0.57 |
| 23 | 609 | 136 | 1.24 | 975 | 8.9 | 30 | 609 | 62 | 0.57 |
| 24 | 612 | 135 | 1.23 | 1110 | 10.13 | 31 | 611 | 79 | 0.72 |
| 25 | 614 | 141 | 1.29 | 1251 | 11.42 | 32 | 612 | 88 | 0.8 |
| 26 | 617 | 157 | 1.43 | 1408 | 12.85 | 33 | 614 | 84 | 0.77 |
| 27 | 620 | 130 | 1.19 | 1538 | 14.04 | 34 | 616 | 99 | 0.9 |
| 28 | 622 | 142 | 1.3 | 1680 | 15.33 | 35 | 618 | 94 | 0.86 |
| 29 | 625 | 140 | 1.28 | 1820 | 16.61 | 36 | 619 | 99 | 0.9 |
| 30 | 628 | 156 | 1.42 | 1976 | 18.03 | 37 | 621 | 97 | 0.88 |
| 31 | 630 | 171 | 1.56 | 2147 | 19.59 | 38 | 623 | 97 | 0.88 |
| 32 | 633 | 166 | 1.52 | 2313 | 21.11 | 39 | 624 | 125 | 1.14 |
| 33 | 635 | 184 | 1.68 | 2497 | 22.79 | 40 | 626 | 109 | 0.99 |
| 34 | 638 | 177 | 1.62 | 2674 | 24.4 | 41 | 628 | 104 | 0.95 |
| 35 | 641 | 212 | 1.93 | 2886 | 26.34 | 42 | 629 | 125 | 1.14 |
| 36 | 643 | 190 | 1.73 | 3076 | 28.07 | 43 | 631 | 133 | 1.21 |
| 37 | 646 | 228 | 2.08 | 3304 | 30.15 | 44 | 632 | 106 | 0.97 |
| 38 | 649 | 220 | 2.01 | 3524 | 32.16 | 45 | 634 | 115 | 1.05 |
| 39 | 651 | 243 | 2.22 | 3767 | 34.38 | 46 | 636 | 97 | 0.88 |
| 40 | 654 | 298 | 2.72 | 4065 | 37.1 | 47 | 637 | 106 | 0.97 |
| 41 | 657 | 262 | 2.39 | 4327 | 39.49 | 48 | 639 | 136 | 1.24 |
| 42 | 660 | 263 | 2.4 | 4590 | 41.89 | 49 | 640 | 118 | 1.08 |
| 43 | 663 | 306 | 2.79 | 4896 | 44.68 | 50 | 642 | 141 | 1.29 |
| 44 | 666 | 298 | 2.72 | 5194 | 47.4 | 51 | 643 | 121 | 1.1 |
| 45 | 669 | 339 | 3.09 | 5533 | 50.5 | 52 | 645 | 137 | 1.25 |
| 46 | 672 | 378 | 3.45 | 5911 | 53.95 | 53 | 646 | 136 | 1.24 |
| 47 | 675 | 339 | 3.09 | 6250 | 57.04 | 54 | 648 | 147 | 1.34 |
| 48 | 679 | 397 | 3.62 | 6647 | 60.66 | 55 | 650 | 144 | 1.31 |
| 49 | 682 | 411 | 3.75 | 7058 | 64.42 | 56 | 651 | 173 | 1.58 |
| 50 | 686 | 413 | 3.77 | 7471 | 68.18 | 57 | 653 | 153 | 1.39 |
| 51 | 690 | 446 | 4.07 | 7917 | 72.26 | 58 | 654 | 161 | 1.47 |
| 52 | 694 | 466 | 4.25 | 8383 | 76.51 | 59 | 656 | 151 | 1.38 |
| 53 | 698 | 428 | 3.91 | 8811 | 80.41 | 60 | 657 | 165 | 1.5 |
| 54 | 702 | 426 | 3.89 | 9237 | 84.3 | 61 | 659 | 177 | 1.61 |

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| Grade 6 | | | | | | | | | | | |
|--------------|-----|-----|----------|-----------|-------|-----|-----|----------|-------|-------|-------|
| STEP Reading | | | | STEP Math | | | | | | | |
| RS | SS | FR | % Cum FR | Cum % | RS | SS | FR | % Cum FR | Cum % | | |
| 55 | 707 | 387 | 3.53 | 9624 | 87.83 | 62 | 661 | 162 | 1.48 | 4420 | 40.29 |
| 56 | 713 | 340 | 3.1 | 9964 | 90.94 | 63 | 662 | 155 | 1.41 | 4575 | 41.7 |
| 57 | 719 | 305 | 2.78 | 10269 | 93.72 | 64 | 664 | 176 | 1.6 | 4751 | 43.31 |
| 58 | 725 | 261 | 2.38 | 10530 | 96.1 | 65 | 665 | 165 | 1.5 | 4916 | 44.81 |
| 59 | 733 | 196 | 1.79 | 10726 | 97.89 | 66 | 667 | 204 | 1.86 | 5120 | 46.67 |
| 60 | 742 | 114 | 1.04 | 10840 | 98.93 | 67 | 669 | 181 | 1.65 | 5301 | 48.32 |
| 61 | 753 | 82 | 0.75 | 10922 | 99.68 | 68 | 670 | 177 | 1.61 | 5478 | 49.94 |
| 62 | 768 | 25 | 0.23 | 10947 | 99.91 | 69 | 672 | 189 | 1.72 | 5667 | 51.66 |
| 63 | 794 | 10 | 0.09 | 10957 | 100 | 70 | 674 | 172 | 1.57 | 5839 | 53.23 |
| | | | | | 71 | 676 | 192 | 1.75 | 6031 | 54.98 | |
| | | | | | 72 | 677 | 189 | 1.72 | 6220 | 56.7 | |
| | | | | | 73 | 679 | 180 | 1.64 | 6400 | 58.34 | |
| | | | | | 74 | 681 | 212 | 1.93 | 6612 | 60.27 | |
| | | | | | 75 | 683 | 199 | 1.81 | 6811 | 62.09 | |
| | | | | | 76 | 685 | 176 | 1.6 | 6987 | 63.69 | |
| | | | | | 77 | 687 | 213 | 1.94 | 7200 | 65.63 | |
| | | | | | 78 | 689 | 211 | 1.92 | 7411 | 67.56 | |
| | | | | | 79 | 691 | 202 | 1.84 | 7613 | 69.4 | |
| | | | | | 80 | 693 | 209 | 1.91 | 7822 | 71.3 | |
| | | | | | 81 | 695 | 222 | 2.02 | 8044 | 73.33 | |
| | | | | | 82 | 697 | 227 | 2.07 | 8271 | 75.4 | |
| | | | | | 83 | 699 | 202 | 1.84 | 8473 | 77.24 | |
| | | | | | 84 | 702 | 196 | 1.79 | 8669 | 79.02 | |
| | | | | | 85 | 704 | 193 | 1.76 | 8862 | 80.78 | |
| | | | | | 86 | 706 | 209 | 1.91 | 9071 | 82.69 | |
| | | | | | 87 | 709 | 194 | 1.77 | 9265 | 84.46 | |
| | | | | | 88 | 712 | 172 | 1.57 | 9437 | 86.03 | |
| | | | | | 89 | 714 | 154 | 1.4 | 9591 | 87.43 | |
| | | | | | 90 | 717 | 195 | 1.78 | 9786 | 89.21 | |
| | | | | | 91 | 720 | 169 | 1.54 | 9955 | 90.75 | |
| | | | | | 92 | 724 | 157 | 1.43 | 10112 | 92.18 | |
| | | | | | 93 | 727 | 160 | 1.46 | 10272 | 93.64 | |
| | | | | | 94 | 731 | 134 | 1.22 | 10406 | 94.86 | |
| | | | | | 95 | 735 | 102 | 0.93 | 10508 | 95.79 | |
| | | | | | 96 | 739 | 107 | 0.98 | 10615 | 96.76 | |
| | | | | | 97 | 744 | 84 | 0.77 | 10699 | 97.53 | |
| | | | | | 98 | 749 | 86 | 0.78 | 10785 | 98.31 | |
| | | | | | 99 | 755 | 61 | 0.56 | 10846 | 98.87 | |
| | | | | | 100 | 762 | 46 | 0.42 | 10892 | 99.29 | |
| | | | | | 101 | 771 | 27 | 0.25 | 10919 | 99.54 | |
| | | | | | 102 | 782 | 29 | 0.26 | 10948 | 99.8 | |
| | | | | | 103 | 796 | 14 | 0.13 | 10962 | 99.93 | |
| | | | | | 104 | 821 | 6 | 0.05 | 10968 | 99.98 | |
| | | | | | 105 | 864 | 2 | 0.02 | 10970 | 100 | |

| Grade 7 | | | | | | | | | | | |
|--------------|-----|-----|------|--------|-------|-----------|-----|-----|------|--------|-------|
| STEP Reading | | | | | | STEP Math | | | | | |
| RS | SS | FR | % | Cum FR | Cum % | RS | SS | FR | % | Cum FR | Cum % |
| 7 | 564 | 4 | 0.04 | 4 | 0.04 | 9 | 584 | 1 | 0.01 | 1 | 0.01 |
| 8 | 570 | 2 | 0.02 | 6 | 0.06 | 10 | 588 | 1 | 0.01 | 2 | 0.02 |
| 9 | 576 | 12 | 0.11 | 18 | 0.17 | 11 | 592 | 1 | 0.01 | 3 | 0.03 |
| 10 | 581 | 11 | 0.1 | 29 | 0.27 | 12 | 596 | 1 | 0.01 | 4 | 0.04 |
| 11 | 585 | 18 | 0.17 | 47 | 0.44 | 14 | 602 | 4 | 0.04 | 8 | 0.07 |
| 12 | 590 | 41 | 0.38 | 88 | 0.82 | 15 | 605 | 7 | 0.06 | 15 | 0.14 |
| 13 | 594 | 41 | 0.38 | 129 | 1.2 | 16 | 608 | 6 | 0.06 | 21 | 0.19 |
| 14 | 598 | 47 | 0.44 | 176 | 1.64 | 17 | 611 | 5 | 0.05 | 26 | 0.24 |
| 15 | 602 | 77 | 0.72 | 253 | 2.35 | 18 | 614 | 12 | 0.11 | 38 | 0.35 |
| 16 | 605 | 64 | 0.6 | 317 | 2.95 | 19 | 616 | 23 | 0.21 | 61 | 0.57 |
| 17 | 609 | 105 | 0.98 | 422 | 3.93 | 20 | 618 | 22 | 0.2 | 83 | 0.77 |
| 18 | 612 | 101 | 0.94 | 523 | 4.86 | 21 | 621 | 38 | 0.35 | 121 | 1.12 |
| 19 | 616 | 105 | 0.98 | 628 | 5.84 | 22 | 623 | 60 | 0.56 | 181 | 1.68 |
| 20 | 619 | 100 | 0.93 | 728 | 6.77 | 23 | 625 | 57 | 0.53 | 238 | 2.21 |
| 21 | 622 | 106 | 0.99 | 834 | 7.76 | 24 | 627 | 71 | 0.66 | 309 | 2.87 |
| 22 | 625 | 121 | 1.13 | 955 | 8.88 | 25 | 629 | 100 | 0.93 | 409 | 3.8 |
| 23 | 628 | 148 | 1.38 | 1103 | 10.26 | 26 | 631 | 109 | 1.01 | 518 | 4.81 |
| 24 | 632 | 162 | 1.51 | 1265 | 11.77 | 27 | 633 | 125 | 1.16 | 643 | 5.97 |
| 25 | 635 | 166 | 1.54 | 1431 | 13.31 | 28 | 635 | 109 | 1.01 | 752 | 6.98 |
| 26 | 638 | 162 | 1.51 | 1593 | 14.82 | 29 | 637 | 107 | 0.99 | 859 | 7.97 |
| 27 | 641 | 178 | 1.66 | 1771 | 16.47 | 30 | 639 | 128 | 1.19 | 987 | 9.16 |
| 28 | 644 | 190 | 1.77 | 1961 | 18.24 | 31 | 641 | 142 | 1.32 | 1129 | 10.48 |
| 29 | 647 | 199 | 1.85 | 2160 | 20.09 | 32 | 643 | 130 | 1.21 | 1259 | 11.69 |
| 30 | 650 | 221 | 2.06 | 2381 | 22.15 | 33 | 644 | 136 | 1.26 | 1395 | 12.95 |
| 31 | 653 | 255 | 2.37 | 2636 | 24.52 | 34 | 646 | 137 | 1.27 | 1532 | 14.22 |
| 32 | 656 | 267 | 2.48 | 2903 | 27 | 35 | 648 | 146 | 1.36 | 1678 | 15.57 |
| 33 | 659 | 255 | 2.37 | 3158 | 29.37 | 36 | 649 | 113 | 1.05 | 1791 | 16.62 |
| 34 | 662 | 281 | 2.61 | 3439 | 31.99 | 37 | 651 | 118 | 1.1 | 1909 | 17.72 |
| 35 | 665 | 332 | 3.09 | 3771 | 35.08 | 38 | 653 | 136 | 1.26 | 2045 | 18.98 |
| 36 | 668 | 350 | 3.26 | 4121 | 38.33 | 39 | 654 | 143 | 1.33 | 2188 | 20.31 |
| 37 | 672 | 358 | 3.33 | 4479 | 41.66 | 40 | 656 | 140 | 1.3 | 2328 | 21.61 |
| 38 | 675 | 355 | 3.3 | 4834 | 44.96 | 41 | 658 | 143 | 1.33 | 2471 | 22.93 |
| 39 | 679 | 413 | 3.84 | 5247 | 48.8 | 42 | 659 | 119 | 1.1 | 2590 | 24.04 |
| 40 | 682 | 467 | 4.34 | 5714 | 53.15 | 43 | 661 | 133 | 1.23 | 2723 | 25.27 |
| 41 | 686 | 484 | 4.5 | 6198 | 57.65 | 44 | 662 | 158 | 1.47 | 2881 | 26.74 |
| 42 | 690 | 522 | 4.86 | 6720 | 62.51 | 45 | 664 | 149 | 1.38 | 3030 | 28.12 |
| 43 | 694 | 494 | 4.59 | 7214 | 67.1 | 46 | 665 | 126 | 1.17 | 3156 | 29.29 |
| 44 | 698 | 511 | 4.75 | 7725 | 71.85 | 47 | 667 | 129 | 1.2 | 3285 | 30.49 |
| 45 | 703 | 528 | 4.91 | 8253 | 76.76 | 48 | 668 | 149 | 1.38 | 3434 | 31.87 |
| 46 | 708 | 541 | 5.03 | 8794 | 81.8 | 49 | 670 | 133 | 1.23 | 3567 | 33.11 |
| 47 | 713 | 476 | 4.43 | 9270 | 86.22 | 50 | 671 | 166 | 1.54 | 3733 | 34.65 |
| 48 | 719 | 454 | 4.22 | 9724 | 90.45 | 51 | 673 | 141 | 1.31 | 3874 | 35.96 |
| 49 | 726 | 359 | 3.34 | 10083 | 93.79 | 52 | 674 | 153 | 1.42 | 4027 | 37.38 |
| 50 | 733 | 293 | 2.73 | 10376 | 96.51 | 53 | 676 | 159 | 1.48 | 4186 | 38.85 |
| 51 | 742 | 187 | 1.74 | 10563 | 98.25 | 54 | 677 | 163 | 1.51 | 4349 | 40.37 |
| 52 | 753 | 113 | 1.05 | 10676 | 99.3 | 55 | 679 | 176 | 1.63 | 4525 | 42 |
| 53 | 769 | 51 | 0.47 | 10727 | 99.78 | 56 | 680 | 168 | 1.56 | 4693 | 43.56 |
| 54 | 794 | 22 | 0.2 | 10749 | 99.98 | 57 | 682 | 164 | 1.52 | 4857 | 45.08 |
| 55 | 817 | 2 | 0.02 | 10751 | 100 | 58 | 684 | 166 | 1.54 | 5023 | 46.62 |

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| Grade 7 | | | | | |
|--------------|----|----|-----------|--------|-------|
| STEP Reading | | | STEP Math | | |
| RS | SS | FR | % | Cum FR | Cum % |
| | | | | 59 | 48.08 |
| | | | | 60 | 49.42 |
| | | | | 61 | 50.97 |
| | | | | 62 | 52.58 |
| | | | | 63 | 54.06 |
| | | | | 64 | 55.68 |
| | | | | 65 | 57.2 |
| | | | | 66 | 58.56 |
| | | | | 67 | 60.14 |
| | | | | 68 | 61.45 |
| | | | | 69 | 63.18 |
| | | | | 70 | 64.79 |
| | | | | 71 | 66.48 |
| | | | | 72 | 68.02 |
| | | | | 73 | 69.61 |
| | | | | 74 | 71.11 |
| | | | | 75 | 72.6 |
| | | | | 76 | 73.95 |
| | | | | 77 | 75.28 |
| | | | | 78 | 76.84 |
| | | | | 79 | 78.11 |
| | | | | 80 | 79.39 |
| | | | | 81 | 80.72 |
| | | | | 82 | 82.11 |
| | | | | 83 | 83.39 |
| | | | | 84 | 84.69 |
| | | | | 85 | 85.93 |
| | | | | 86 | 87.14 |
| | | | | 87 | 88.35 |
| | | | | 88 | 89.77 |
| | | | | 89 | 90.97 |
| | | | | 90 | 92.11 |
| | | | | 91 | 93.13 |
| | | | | 92 | 94.25 |
| | | | | 93 | 95.36 |
| | | | | 94 | 96.1 |
| | | | | 95 | 96.91 |
| | | | | 96 | 97.57 |
| | | | | 97 | 98.17 |
| | | | | 98 | 98.67 |
| | | | | 99 | 99.03 |
| | | | | 100 | 99.38 |
| | | | | 101 | 99.59 |
| | | | | 102 | 99.81 |
| | | | | 103 | 99.92 |
| | | | | 104 | 99.98 |
| | | | | 105 | 100 |

| Grade 8 | | | | | | | | | | | |
|--------------|-----|-----|-------|-------|-----------|----|-----|-------|-------|------|-------|
| STEP Reading | | | | | STEP Math | | | | | | |
| RS | SS | FR | % Cum | Cum % | RS | SS | FR | % Cum | Cum % | | |
| 4 | 562 | 1 | 0.01 | 1 | 0.01 | 5 | 573 | 1 | 0.01 | 1 | 0.01 |
| 7 | 586 | 8 | 0.07 | 9 | 0.08 | 7 | 586 | 1 | 0.01 | 2 | 0.02 |
| 8 | 592 | 7 | 0.06 | 16 | 0.14 | 8 | 592 | 3 | 0.03 | 5 | 0.05 |
| 9 | 597 | 21 | 0.19 | 37 | 0.33 | 13 | 611 | 1 | 0.01 | 6 | 0.05 |
| 10 | 602 | 21 | 0.19 | 58 | 0.52 | 15 | 618 | 5 | 0.05 | 11 | 0.1 |
| 11 | 607 | 39 | 0.35 | 97 | 0.87 | 16 | 621 | 4 | 0.04 | 15 | 0.14 |
| 12 | 612 | 68 | 0.61 | 165 | 1.49 | 17 | 623 | 5 | 0.05 | 20 | 0.18 |
| 13 | 616 | 58 | 0.52 | 223 | 2.01 | 18 | 626 | 14 | 0.13 | 34 | 0.31 |
| 14 | 620 | 87 | 0.78 | 310 | 2.8 | 19 | 628 | 12 | 0.11 | 46 | 0.41 |
| 15 | 624 | 94 | 0.85 | 404 | 3.64 | 20 | 631 | 36 | 0.32 | 82 | 0.74 |
| 16 | 627 | 106 | 0.96 | 510 | 4.6 | 21 | 633 | 28 | 0.25 | 110 | 0.99 |
| 17 | 631 | 116 | 1.05 | 626 | 5.65 | 22 | 635 | 45 | 0.41 | 155 | 1.4 |
| 18 | 634 | 138 | 1.24 | 764 | 6.89 | 23 | 638 | 56 | 0.5 | 211 | 1.9 |
| 19 | 638 | 149 | 1.34 | 913 | 8.23 | 24 | 640 | 65 | 0.59 | 276 | 2.48 |
| 20 | 641 | 180 | 1.62 | 1093 | 9.86 | 25 | 642 | 70 | 0.63 | 346 | 3.11 |
| 21 | 644 | 157 | 1.42 | 1250 | 11.27 | 26 | 644 | 102 | 0.92 | 448 | 4.03 |
| 22 | 647 | 171 | 1.54 | 1421 | 12.82 | 27 | 646 | 119 | 1.07 | 567 | 5.1 |
| 23 | 651 | 185 | 1.67 | 1606 | 14.48 | 28 | 648 | 107 | 0.96 | 674 | 6.07 |
| 24 | 654 | 205 | 1.85 | 1811 | 16.33 | 29 | 649 | 136 | 1.22 | 810 | 7.29 |
| 25 | 657 | 229 | 2.07 | 2040 | 18.4 | 30 | 651 | 115 | 1.04 | 925 | 8.33 |
| 26 | 660 | 241 | 2.17 | 2281 | 20.57 | 31 | 653 | 135 | 1.22 | 1060 | 9.54 |
| 27 | 663 | 254 | 2.29 | 2535 | 22.86 | 32 | 655 | 142 | 1.28 | 1202 | 10.82 |
| 28 | 667 | 291 | 2.62 | 2826 | 25.49 | 33 | 657 | 141 | 1.27 | 1343 | 12.09 |
| 29 | 670 | 298 | 2.69 | 3124 | 28.17 | 34 | 658 | 139 | 1.25 | 1482 | 13.34 |
| 30 | 673 | 320 | 2.89 | 3444 | 31.06 | 35 | 660 | 136 | 1.22 | 1618 | 14.56 |
| 31 | 676 | 367 | 3.31 | 3811 | 34.37 | 36 | 662 | 121 | 1.09 | 1739 | 15.65 |
| 32 | 680 | 364 | 3.28 | 4175 | 37.65 | 37 | 663 | 142 | 1.28 | 1881 | 16.93 |
| 33 | 683 | 420 | 3.79 | 4595 | 41.44 | 38 | 665 | 137 | 1.23 | 2018 | 18.17 |
| 34 | 687 | 440 | 3.97 | 5035 | 45.41 | 39 | 667 | 121 | 1.09 | 2139 | 19.25 |
| 35 | 691 | 453 | 4.09 | 5488 | 49.49 | 40 | 668 | 155 | 1.4 | 2294 | 20.65 |
| 36 | 695 | 511 | 4.61 | 5999 | 54.1 | 41 | 670 | 157 | 1.41 | 2451 | 22.06 |
| 37 | 699 | 494 | 4.46 | 6493 | 58.56 | 42 | 671 | 152 | 1.37 | 2603 | 23.43 |
| 38 | 703 | 548 | 4.94 | 7041 | 63.5 | 43 | 673 | 138 | 1.24 | 2741 | 24.67 |
| 39 | 707 | 573 | 5.17 | 7614 | 68.67 | 44 | 675 | 137 | 1.23 | 2878 | 25.91 |
| 40 | 712 | 528 | 4.76 | 8142 | 73.43 | 45 | 676 | 153 | 1.38 | 3031 | 27.28 |
| 41 | 718 | 558 | 5.03 | 8700 | 78.46 | 46 | 678 | 173 | 1.56 | 3204 | 28.84 |
| 42 | 723 | 534 | 4.82 | 9234 | 83.28 | 47 | 679 | 137 | 1.23 | 3341 | 30.07 |
| 43 | 730 | 520 | 4.69 | 9754 | 87.97 | 48 | 681 | 172 | 1.55 | 3513 | 31.62 |
| 44 | 737 | 454 | 4.09 | 10208 | 92.06 | 49 | 682 | 149 | 1.34 | 3662 | 32.96 |
| 45 | 746 | 373 | 3.36 | 10581 | 95.43 | 50 | 684 | 158 | 1.42 | 3820 | 34.39 |
| 46 | 757 | 263 | 2.37 | 10844 | 97.8 | 51 | 685 | 145 | 1.31 | 3965 | 35.69 |
| 47 | 773 | 152 | 1.37 | 10996 | 99.17 | 52 | 687 | 170 | 1.53 | 4135 | 37.22 |
| 48 | 798 | 86 | 0.78 | 11082 | 99.95 | 53 | 688 | 186 | 1.67 | 4321 | 38.9 |
| 49 | 821 | 6 | 0.05 | 11088 | 100 | 54 | 690 | 156 | 1.4 | 4477 | 40.3 |
| | | | | | | 55 | 691 | 167 | 1.5 | 4644 | 41.8 |
| | | | | | | 56 | 693 | 173 | 1.56 | 4817 | 43.36 |
| | | | | | | 57 | 695 | 182 | 1.64 | 4999 | 45 |
| | | | | | | 58 | 696 | 201 | 1.81 | 5200 | 46.81 |
| | | | | | | 59 | 698 | 161 | 1.45 | 5361 | 48.26 |

SD STEP 2004 Spring Administration

| Grade 8 | | | | | | | | | |
|--------------|----|----|----------|-------|-----------|-----|-----|----------|-------------|
| STEP Reading | | | | | STEP Math | | | | |
| RS | SS | FR | % Cum FR | Cum % | RS | SS | FR | % Cum FR | Cum % |
| | | | | | 60 | 699 | 188 | 1.69 | 5549 49.95 |
| | | | | | 61 | 701 | 193 | 1.74 | 5742 51.69 |
| | | | | | 62 | 702 | 193 | 1.74 | 5935 53.43 |
| | | | | | 63 | 704 | 180 | 1.62 | 6115 55.05 |
| | | | | | 64 | 706 | 180 | 1.62 | 6295 56.67 |
| | | | | | 65 | 707 | 186 | 1.67 | 6481 58.34 |
| | | | | | 66 | 709 | 158 | 1.42 | 6639 59.76 |
| | | | | | 67 | 710 | 167 | 1.5 | 6806 61.27 |
| | | | | | 68 | 712 | 188 | 1.69 | 6994 62.96 |
| | | | | | 69 | 714 | 173 | 1.56 | 7167 64.52 |
| | | | | | 70 | 715 | 194 | 1.75 | 7361 66.26 |
| | | | | | 71 | 717 | 182 | 1.64 | 7543 67.9 |
| | | | | | 72 | 719 | 161 | 1.45 | 7704 69.35 |
| | | | | | 73 | 721 | 200 | 1.8 | 7904 71.15 |
| | | | | | 74 | 722 | 162 | 1.46 | 8066 72.61 |
| | | | | | 75 | 724 | 176 | 1.58 | 8242 74.19 |
| | | | | | 76 | 726 | 159 | 1.43 | 8401 75.62 |
| | | | | | 77 | 728 | 167 | 1.5 | 8568 77.13 |
| | | | | | 78 | 730 | 160 | 1.44 | 8728 78.57 |
| | | | | | 79 | 732 | 163 | 1.47 | 8891 80.03 |
| | | | | | 80 | 734 | 156 | 1.4 | 9047 81.44 |
| | | | | | 81 | 736 | 156 | 1.4 | 9203 82.84 |
| | | | | | 82 | 738 | 140 | 1.26 | 9343 84.1 |
| | | | | | 83 | 740 | 135 | 1.22 | 9478 85.32 |
| | | | | | 84 | 743 | 160 | 1.44 | 9638 86.76 |
| | | | | | 85 | 745 | 130 | 1.17 | 9768 87.93 |
| | | | | | 86 | 747 | 122 | 1.1 | 9890 89.03 |
| | | | | | 87 | 750 | 111 | 1 | 10001 90.03 |
| | | | | | 88 | 753 | 141 | 1.27 | 10142 91.3 |
| | | | | | 89 | 755 | 104 | 0.94 | 10246 92.23 |
| | | | | | 90 | 758 | 127 | 1.14 | 10373 93.37 |
| | | | | | 91 | 761 | 99 | 0.89 | 10472 94.27 |
| | | | | | 92 | 765 | 87 | 0.78 | 10559 95.05 |
| | | | | | 93 | 768 | 97 | 0.87 | 10656 95.92 |
| | | | | | 94 | 772 | 89 | 0.8 | 10745 96.72 |
| | | | | | 95 | 776 | 67 | 0.6 | 10812 97.33 |
| | | | | | 96 | 780 | 54 | 0.49 | 10866 97.81 |
| | | | | | 97 | 785 | 62 | 0.56 | 10928 98.37 |
| | | | | | 98 | 790 | 56 | 0.5 | 10984 98.87 |
| | | | | | 99 | 796 | 36 | 0.32 | 11020 99.2 |
| | | | | | 100 | 803 | 36 | 0.32 | 11056 99.52 |
| | | | | | 101 | 811 | 27 | 0.24 | 11083 99.77 |
| | | | | | 102 | 822 | 10 | 0.09 | 11093 99.86 |
| | | | | | 103 | 837 | 11 | 0.1 | 11104 99.95 |
| | | | | | 104 | 862 | 3 | 0.03 | 11107 99.98 |
| | | | | | 105 | 884 | 2 | 0.02 | 11109 100 |

| Grade 11 | | | | | | | | | | | |
|--------------|-----|-----|------|--------|-----------|----|-----|-----|------|--------|-------|
| STEP Reading | | | | | STEP Math | | | | | | |
| RS | SS | FR | % | Cum FR | Cum % | RS | SS | FR | % | Cum FR | Cum % |
| 4 | 600 | 2 | 0.02 | 2 | 0.02 | 1 | 537 | 1 | 0.01 | 1 | 0.01 |
| 5 | 610 | 1 | 0.01 | 3 | 0.03 | 5 | 596 | 1 | 0.01 | 2 | 0.02 |
| 6 | 618 | 7 | 0.07 | 10 | 0.1 | 6 | 603 | 1 | 0.01 | 3 | 0.03 |
| 7 | 626 | 6 | 0.06 | 16 | 0.16 | 8 | 614 | 1 | 0.01 | 4 | 0.04 |
| 8 | 632 | 14 | 0.14 | 30 | 0.3 | 9 | 619 | 1 | 0.01 | 5 | 0.05 |
| 9 | 638 | 23 | 0.23 | 53 | 0.54 | 12 | 631 | 1 | 0.01 | 6 | 0.06 |
| 10 | 644 | 28 | 0.28 | 81 | 0.82 | 13 | 635 | 3 | 0.03 | 9 | 0.09 |
| 11 | 649 | 32 | 0.33 | 113 | 1.15 | 15 | 641 | 6 | 0.06 | 15 | 0.15 |
| 12 | 654 | 48 | 0.49 | 161 | 1.64 | 16 | 644 | 7 | 0.07 | 22 | 0.22 |
| 13 | 659 | 62 | 0.63 | 223 | 2.27 | 17 | 647 | 2 | 0.02 | 24 | 0.24 |
| 14 | 664 | 83 | 0.84 | 306 | 3.11 | 18 | 649 | 6 | 0.06 | 30 | 0.3 |
| 15 | 668 | 102 | 1.04 | 408 | 4.15 | 19 | 652 | 13 | 0.13 | 43 | 0.44 |
| 16 | 673 | 122 | 1.24 | 530 | 5.39 | 20 | 654 | 20 | 0.2 | 63 | 0.64 |
| 17 | 677 | 122 | 1.24 | 652 | 6.63 | 21 | 657 | 25 | 0.25 | 88 | 0.89 |
| 18 | 681 | 144 | 1.46 | 796 | 8.09 | 22 | 659 | 24 | 0.24 | 112 | 1.14 |
| 19 | 686 | 174 | 1.77 | 970 | 9.86 | 23 | 661 | 47 | 0.48 | 159 | 1.62 |
| 20 | 690 | 189 | 1.92 | 1159 | 11.78 | 24 | 664 | 69 | 0.7 | 228 | 2.32 |
| 21 | 694 | 204 | 2.07 | 1363 | 13.85 | 25 | 666 | 94 | 0.95 | 322 | 3.27 |
| 22 | 698 | 228 | 2.32 | 1591 | 16.17 | 26 | 668 | 91 | 0.92 | 413 | 4.2 |
| 23 | 702 | 273 | 2.77 | 1864 | 18.95 | 27 | 670 | 93 | 0.94 | 506 | 5.14 |
| 24 | 706 | 289 | 2.94 | 2153 | 21.88 | 28 | 672 | 103 | 1.05 | 609 | 6.19 |
| 25 | 711 | 312 | 3.17 | 2465 | 25.06 | 29 | 674 | 105 | 1.07 | 714 | 7.25 |
| 26 | 715 | 354 | 3.6 | 2819 | 28.65 | 30 | 675 | 118 | 1.2 | 832 | 8.45 |
| 27 | 719 | 382 | 3.88 | 3201 | 32.54 | 31 | 677 | 131 | 1.33 | 963 | 9.78 |
| 28 | 724 | 406 | 4.13 | 3607 | 36.66 | 32 | 679 | 137 | 1.39 | 1100 | 11.17 |
| 29 | 729 | 496 | 5.04 | 4103 | 41.71 | 33 | 681 | 126 | 1.28 | 1226 | 12.45 |
| 30 | 734 | 518 | 5.27 | 4621 | 46.97 | 34 | 683 | 133 | 1.35 | 1359 | 13.8 |
| 31 | 739 | 567 | 5.76 | 5188 | 52.73 | 35 | 684 | 120 | 1.22 | 1479 | 15.02 |
| 32 | 744 | 649 | 6.6 | 5837 | 59.33 | 36 | 686 | 123 | 1.25 | 1602 | 16.27 |
| 33 | 750 | 664 | 6.75 | 6501 | 66.08 | 37 | 688 | 128 | 1.3 | 1730 | 17.57 |
| 34 | 756 | 651 | 6.62 | 7152 | 72.7 | 38 | 689 | 113 | 1.15 | 1843 | 18.72 |
| 35 | 762 | 660 | 6.71 | 7812 | 79.41 | 39 | 691 | 130 | 1.32 | 1973 | 20.04 |
| 36 | 770 | 557 | 5.66 | 8369 | 85.07 | 40 | 693 | 128 | 1.3 | 2101 | 21.34 |
| 37 | 778 | 505 | 5.13 | 8874 | 90.2 | 41 | 694 | 132 | 1.34 | 2233 | 22.68 |
| 38 | 788 | 380 | 3.86 | 9254 | 94.06 | 42 | 696 | 119 | 1.21 | 2352 | 23.89 |
| 39 | 799 | 286 | 2.91 | 9540 | 96.97 | 43 | 698 | 126 | 1.28 | 2478 | 25.17 |
| 40 | 816 | 183 | 1.86 | 9723 | 98.83 | 44 | 699 | 137 | 1.39 | 2615 | 26.56 |
| 41 | 842 | 91 | 0.92 | 9814 | 99.76 | 45 | 701 | 131 | 1.33 | 2746 | 27.89 |
| 42 | 865 | 24 | 0.24 | 9838 | 100 | 46 | 702 | 142 | 1.44 | 2888 | 29.33 |
| | | | | | | 47 | 704 | 157 | 1.59 | 3045 | 30.93 |
| | | | | | | 48 | 705 | 137 | 1.39 | 3182 | 32.32 |
| | | | | | | 49 | 707 | 151 | 1.53 | 3333 | 33.85 |
| | | | | | | 50 | 708 | 151 | 1.53 | 3484 | 35.39 |
| | | | | | | 51 | 710 | 145 | 1.47 | 3629 | 36.86 |
| | | | | | | 52 | 711 | 162 | 1.65 | 3791 | 38.51 |
| | | | | | | 53 | 713 | 136 | 1.38 | 3927 | 39.89 |
| | | | | | | 54 | 715 | 153 | 1.55 | 4080 | 41.44 |
| | | | | | | 55 | 716 | 140 | 1.42 | 4220 | 42.86 |

SD STEP 2004 Spring Administration

| Grade 11 | | | | | |
|--------------|----|----|-----------|--------|-------|
| STEP Reading | | | STEP Math | | |
| RS | SS | FR | % | Cum FR | Cum % |
| | | | | 56 | 44.33 |
| | | | | 57 | 45.74 |
| | | | | 58 | 47.35 |
| | | | | 59 | 48.82 |
| | | | | 60 | 50.36 |
| | | | | 61 | 51.9 |
| | | | | 62 | 53.48 |
| | | | | 63 | 55.11 |
| | | | | 64 | 56.57 |
| | | | | 65 | 58.04 |
| | | | | 66 | 59.6 |
| | | | | 67 | 60.85 |
| | | | | 68 | 62.38 |
| | | | | 69 | 63.99 |
| | | | | 70 | 65.63 |
| | | | | 71 | 67.1 |
| | | | | 72 | 68.72 |
| | | | | 73 | 70.14 |
| | | | | 74 | 71.61 |
| | | | | 75 | 72.92 |
| | | | | 76 | 74.24 |
| | | | | 77 | 75.58 |
| | | | | 78 | 77.08 |
| | | | | 79 | 78.62 |
| | | | | 80 | 79.91 |
| | | | | 81 | 81.24 |
| | | | | 82 | 82.61 |
| | | | | 83 | 83.98 |
| | | | | 84 | 85.27 |
| | | | | 85 | 86.32 |
| | | | | 86 | 87.52 |
| | | | | 87 | 88.68 |
| | | | | 88 | 89.75 |
| | | | | 89 | 90.89 |
| | | | | 90 | 91.93 |
| | | | | 91 | 92.92 |
| | | | | 92 | 93.62 |
| | | | | 93 | 94.46 |
| | | | | 94 | 95.17 |
| | | | | 95 | 95.99 |
| | | | | 96 | 96.84 |
| | | | | 97 | 97.5 |
| | | | | 98 | 98.08 |
| | | | | 99 | 98.65 |
| | | | | 100 | 99.12 |
| | | | | 101 | 99.4 |
| | | | | 102 | 99.58 |
| | | | | 103 | 99.79 |
| | | | | 104 | 99.98 |
| | | | | 105 | 100 |

